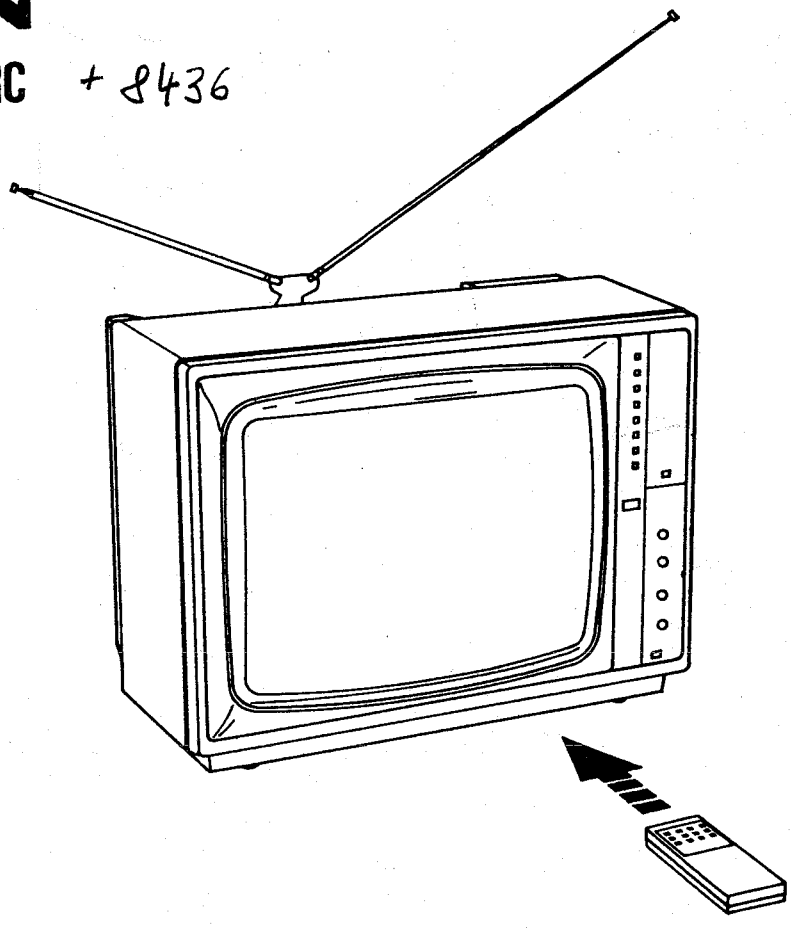
Service Manual

ORION

MODEL COLOR 2001RC + 8436

VHF/UHF

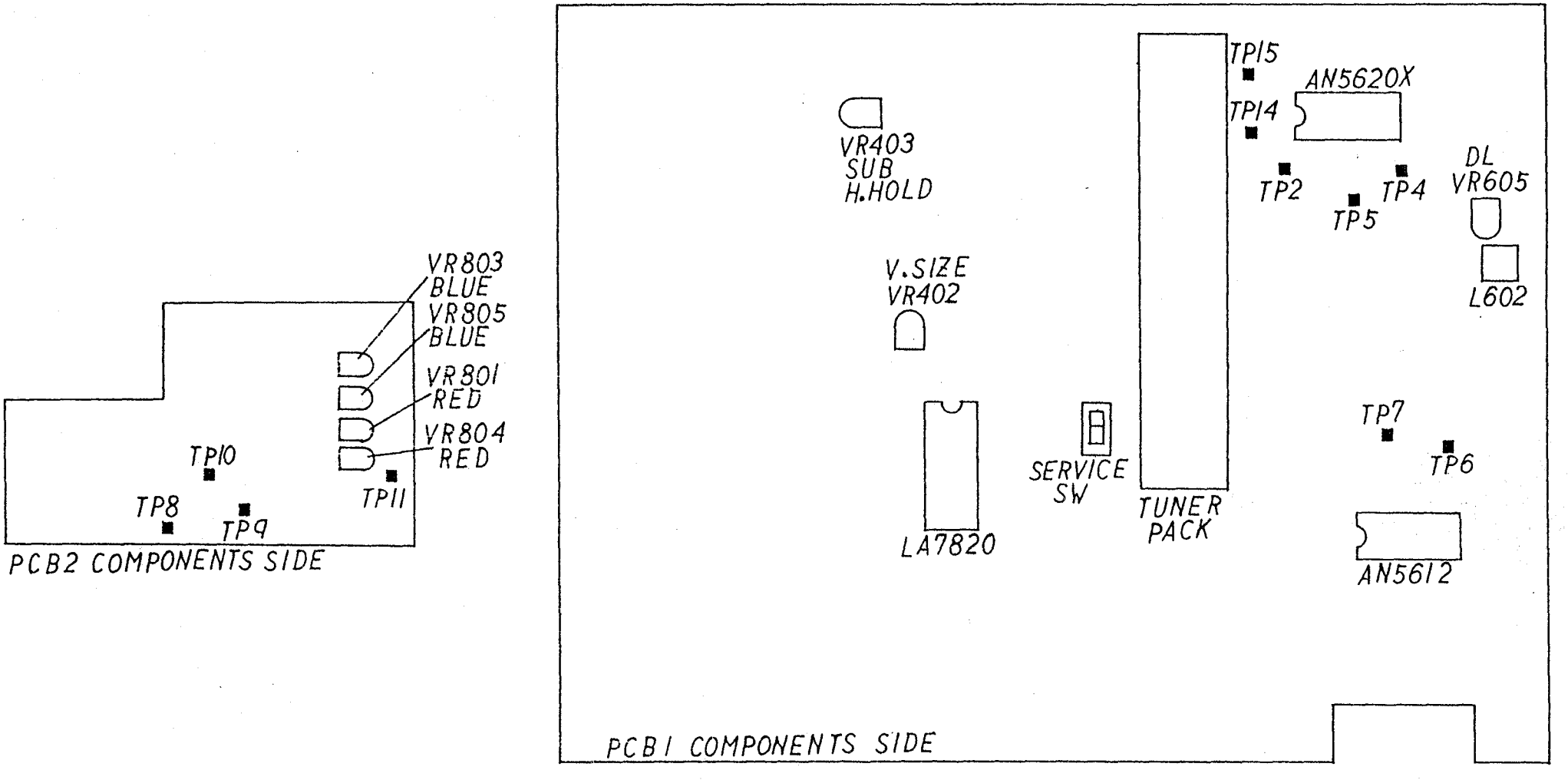
COLOR TV



J17018'84
021084

ELECTRICAL SPECIFICATIONS

Picture Size		14 inch
System		PAL
Frequency Ragne:	VHF (L)	2 - 4 CH, 47 - 68 MHz
	VHF (H)	5 - 12 CH, 174 - 230 MHz
	UHF	21 - 69 CH, 470 - 862 MHz
Maximum Sensitivity:	VHF	30 dB (CRT Cathode 10Vp-p)
	UHF	33 dB
Intermediate Frequency:		
Picture IF Carrier Frequency		38.9MHz
Color Subcarrier Frequency		34.47 MHz
Sound IF Carrier Frequency		33.40 MHz
Sound Intermediate Frequency		5.5 MHz
Maximum Output Power		1.2 W
10% THD Output Power		0.8 W
Speaker		8 ohm
Power Source		AC 220V
IC		8
Transistor		24
Diode		57
LED		8
TV Tuner Pack		1
Remote Control Receiver Unit		1
Remote Control Transmitter Unit		1


VR803
BLUE
VR805
BLUE
VR801
RED
VR804
RED
TP10
TP8
TP9
TP11
PCB2 COMPONENTS SIDE
TP15
AN5620X
TP14
VR403
SUB
H.HOLD
TP2
TP4
TP5
DL
VR605
L602
V.SIZE
VR402
TP7
TP6
SERVICE
SW
TUNER
PACK
LA7820
AN5612
PCB1 COMPONENTS SIDE

HOLD DOWN CIRDUIT

The higher high voltage is raised, the more the voltage of No.9 pin (supply for CRT heater) of high voltage transformer and the voltage of No.1 of Integrated Circuit (IC401) are increased at the same time. The voltage is rectified by D406 and smoothed by R427 and C427. Now, when high voltage reaches to the criterion of the voltage, D405 can be breakdown because of being more than zener voltage. And then the current flow into No.5 pin of IC401, and horizontal oscillator shall be stopped. Accordingly, horizontal output will be nothing. Hold Down Circuit is operated with the standard high voltage of 25K volts.

VERTICAL SIZE ADJUSTMENT

Adjust the control (VR402) so that the picture fills the picture opening from top to bottom and is proportionate to the width.

RF AGC ADJUSTMENT

The RF AGC control is adjusted at the factory and rarely required re-adjustment unless the received picture exhibits too much snow or the receiver lacks sensitivity. Home adjustment can be made by tuning in a weak snowy station and adjusting RF AGC Control for the least amount of snow.

For a more accurate adjustment use the following procedure.

1. Receive the signal of test patten (80dB).
2. Adjust AGC Pin of TV Tuner (TP15) to 3.6V with RF AGC Control.

FOCUS ADJUSTMENT

Adjust focus control, on the flyback transformer, for fine picture.

PARTS LIST FOR MODEL COLOR 2001 RC

****

REF. NO.	PARTS NO.	DESCRIPTION			Q'TY
		- RESISTORS -			
R101	RO31T6473J	RC RD16ST26-473J	47K	OHM 1/6W	1
R102	RO31T6103J	RC RD16ST26-103J	10K	OHM 1/6W	1
R103	RO31T6473J	RC RD16ST26-473J	47K	OHM 1/6W	1
R104	RO31T6103J	RC RD16ST26-103J	10K	O M 1/6W	1
R105	RO31T6473J	RC RD16ST26-473J	47K	OHM 1/6W	1
R106	RO31T6103J	RC RD16ST26-103J	10K	OHM 1/6W	1
R107	RO31T6474J	RC RD16ST26-474J	470K	OHM 1/6W	1
R108	RO31T45R6J	RC RD25ST26-5R6J	5.6	OHM 1/4W	1
R109	RO31T6104J	RC RD16ST26-104J	100K	OHM 1/6W	1
R110	RD31T6152J	RC RD16ST26-152J	1.5K	OHM 1/6W	1
R111	RO31T6562J	RC RD16ST26-562J	5.6K	OHM 1/6W	1
R119	RO11T6224J	RC ERD-16TJ224T	220K	OHM 1/6W	1
R120	RO31T4184J	RC RD25ST26-184J	180K	OHM 1/4W	1
R121	RO31T45R6J	RC RD25ST26-5R6J	5.6	OHM 1/4W	1
R122	RO21T4683J	RC RD25ST683J	68K	OHM 1/4W	1
R123	RO11T2151J	RC ERD-50TJ151T	150	OHM 1/2W	1
R125	RO21T4472J	RC RD25ST472J	4.7K	OHM 1/4W	1
R126	RO11T6561J	RC ERD-16TJ561T	560	OHM 1/6W	1
R127	RO11T6153J	RC ERD-16TJ153T	15K	OHM 1/6W	1
R128	RO11T6104J	RC ERD-16TJ104T	100K	OHM 1/6W	1
R129	RO11T6392J	RC ERD-16TJ392T	3.9K	OHM 1/6W	1
R130	RO11T6103J	RC ERD-16TJ103T	10K	OHM 1/6W	1
R131	RO11T6472J	RC ERD-16TJ472T	4.7K	OHM 1/6W	1
R132	RO11T6101J	RC ERD-16TJ101T	100	OHM 1/6W	1
R133	RO11T6102J	RC ERD-16TJ102T	1K	OHM 1/6W	1
R134	RO31T4223J	RC RD25ST26-223J	22K	OHM 1/4W	1
R135	RO11T6123J	RC ERD-16TJ123T	12K	OHM 1/6W	1
R136	RO21T4153J	RC RD25ST153J	15K	OHM 1/4W	1
R137	RO11T6153J	RC ERD-16TJ153T	15K	OHM 1/6W	1
R138	RO11T6105J	RC ERD-16TJ105T	1M	OHM 1/6W	1
R139	RO11T6334J	RC ERD-16TJ334T	330K	OHM 1/6W	1
R140	RO11T6104J	RC ERD-16TJ104 T	100K	OHM 1/6W	1
R141	RO11T6471J	RC ERD-16TJ471T	470	OHM 1/6W	1
R144	RO11T6104J	RC ERD-16TJ104T	100K	OHM 1/6W	1
R145	RO11T6103J	RC ERD-16TJ103T	10K	OHM 1/6W	1
R147	RO31T4102J	RC RD25ST26-102J	1K	OHM 1/4W	1
R301	RO31T6473J	RC RD16ST26-473J	47K	OHM 1/6W	1
R302	RO12T2103J	RC ERD-S1TJ103T	10K	OHM 1/2W	1
R304	RO31T6274J	RC RD16ST26-274J	270K	OHM 1/6W	1
R305	RO12T2680J	RC ERD-S1TJ680T	68	OHM 1/2W	1
R307	RO31T6561J	RC RD16ST26-561J	560	OHM 1/6W	1
R401	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R402	RO31T6332J	RC RD16ST26-332J	3.3K	OHM 1/6W	1
R403	RO31T6184J	RC RD16ST26-184J	180K	OHM 1/6W	1
R404	RO31T6271J	RC RD16ST26-271J	270	OHM 1/6W	1
R405	RO31T6822J	RC RD16ST26-822J	8.2K	OHM 1/6W	1
R406	RO31T6822J	RC RD16ST26-822J	8.2K	OHM 1/6W	1
R407	RO31T6103J	RC RD16ST26-103J	10K	OHM 1/6W	1
R408	RO31T6123J	RC RD16ST26-123J	12K	OHM 1/6W	1
R409	RO31T6564J	RC RD16ST26-564J	560K	OHM 1/6W	1
R410	RO31T6224J	RC RD16ST-26-224J	220K	OHM 1/6W	1
R411	RO31T6333J	RC RD16ST26-333J	33K	OHM 1/6W	1
R412	RO31T4563J	RC RD16ST26-563J	56K	OHM 1/6W	1

REF. NO.	PARTS NO.	DESCRIPTION			Q'TY
R413	RO31T4101J	RC RD25ST26-101J	100	OHM 1/4W	1
R414	R31181152J	R, METAL OXIDE ERG-1ANJ152H	1.5K	OHM 1W	1
R415	RO31T6152J	RC RD16ST26-152J	1.5K	OHM 1/6W	1
R416	RO31T5162J	RC RD16ST26-152J	1.5K	OHM 1/6W	1
R417	RO12T2681J	RC ERD-S1TJ681T	680	OHM 1/2W	1
R418	RO31T6104J	RC RD16ST26-104J	100K	OHM 1/6W	1
R420	RO31T6153J	RC RD16ST26-153J	15K	OHM 1/6W	1
R421	RO31T6563J	RC RD16ST26-563J	56K	OHM 1/6W	1
R422	RO31T6103J	RC RD16ST26-103J	10K	OHM 1/6W	1
R423	RO31T4392J	RC RD25ST26-392J	3.9K	OHM 1/4W	1
R424	RO31T6223J	RC RD16ST26-223J	22K	OHM 1/6W	1
R425	RO31T6332J	RC RD16ST26-332J	3.3K	OHM 1/6W	1
R426	RO31T6182J	RC RD16ST26-182J	1.8K	OHM 1/6W	1
R427	RO31T6153J	RC RD16ST26-153J	15K	OHM 1/6W	1
R428	RO31T6123J	RC RD16ST26-123J	12K	OHM 1/6W	1
R429	RO12T2472J	RC ERD-S1TJ472T	4.7K	OHM 1/2W	1
R430	R3118A332J	R, METAL OXIDE ERG-2ANJ332H	3.3K	OHM 2W	1
R432	RO12T24R7J	RC ERD-S1TJ4R7T	4.7	OHM 1/2W	1
R433	R311812R2J	R, METAL OXIDE ERX-1ANJ2R2H	2.2	OHM 1W	1
R436	RO31T4474J	RC RD25ST26-474J	470K	OHM 1/4W	1
R438	R311812R2J	R, METAL OXIDE ERX-1ANJ2R2H	2.2	OHM 1W	1
R439	R615823R3J	R, FUSE ERQ-12AJ3R3P	3.3	OHM 1/2W	1
R440	R311812R2J	R, METAL OXIDE ERX-1ANJ2R2H	2.2	OHM 1W	1
R441	RO31T6333J	RC RD16ST26-333J	33K	OHM 1/6W	1
R442	RO12T22R2	RC ERD-S1TJ2R2T	2.2	OHM 1/2W	1
R443	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R444	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R445	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R446	RO31T6822J	RC RD16ST26-822J	8.2K	OHM 1/6W	1
R447	RO31T6822J	RC RD16ST26-822J	8.2K	OHM 1/6W	1
R449	RO12T2151J	RC ERD-S1TJ151T	150	OHM 1/2W	1
R450	R512AE120J	R, CEMENT ERF-7ZXJ120	12	OHM 7W	1
R452	RO31T6334J	RC RD16ST26-334J	330K	OHM 1/6W	1
R502	R512AD3R9K	R, CEMENT ERF-5ZXK3R9	3.9	OHM 5W	1
R503	RD12T2104J	RC ERD-S1TJ104T	100K	OHM 1/2W	1
R504	RO12T2823J	RC ERD-S1TJ823T	82K	OHM 1/2W	1
R505	R3118A220J	R, MENTAL OXIDE ERG-2ANJ220H	22	OHM 2W	1
R506	RO12T2183J	RC ERD-S1TJ183T	18K	OHM 1/2W	1
R508	R31181221J	R, METAL OXIDE ERG-1ANJ221H	220	OHM 1W	1
R601	RO31T6102J	RC RD16ST26-102J	1K	OHM 1/6W	1
R602	RO31T6182J	RC RD16ST26-182J	1.8K	OHM 1/6W	1
R603	RO31T6332J	RC RD16ST26-332J	3.3K	OHM 1/6W	1
R604	RO31T6332J	RC RD16ST26-332J	3.3K	OHM 1/6W	1
R605	RO31T6183J	RC RD16ST26-183J	18K	OHM 1/6W	1
R606	RO31T6332J	RC RD16ST26-332J	3.3K	OHM 1/6W	1
R607	RO31T6153J	RC RD16ST56-153J	15K	OHM 1/6W	1
R608	RO31T6391J	RC RD16ST26-391J	390	OHM 1/6W	1
R609	RO31T4224J	RC RD25ST26-224J	220K	OHM 1/4W	1
R610	RO31T6681J	RC RD16ST26-681J	680	OHM 1/6W	1
R611	RO31T6472J	RC RD16ST26-472J	4.7K	OHM 1/6W	1
R612	RO31T4472J	RC RD25ST26-472J	4.7K	OHM 1/4W	1
R613	RO31T6224J	RC RD16ST26-224J	220K	OHM 1/6W	1
R614	RO31T4272J	RC RD25ST26-272J	2.7K	OHM 1/4W	1
R615	RO31T6331J	RC RD16ST26-331J	330	OHM 1/6W	1
R617	RO12T28R2J	RC ERD-S1TJ8R2T	8.2	OHM 1/2W	1
R618	RO31T6153J	RC RD16ST26-153J	15K	OHM 1/6W	1
R620	RO31T6102J	RC RD16ST26-102J	1K	OHM 1/6W	1
R621	RO31T6102J	RC RD16ST26-102J	1K	OHM 1/6W	1
R619	RO31T6473J	RC RD16ST26-473J	47K	OHM 1/6W	1

REF. NO.	PARTS NO.	DESCRIPTION			Q'TY
R622	RO31T6102J	RC RD16ST26-102J	1K	OHM 1/6W	1
R623	RO31T6821J	RC RD16ST26-821J	820	OHM 1/6W	1
R624	RO31T4182J	RC RD25ST26-182J	1.8K	OHM 1/4W	1
R625	RO31T6182J	RC RD16ST26-182J	1.8K	OHM 1/6W	1
R626	RO31T6393J	RC RD16ST26-393J	39K	OHM 1/6W	1
R627	RO31T6181J	RC RD16ST26-181J	180	OHM 1/6W	1
R628	RO31T6471J	RC RD16ST26-471J	470	OHM 1/6W	1
R629	RO31T6562J	RC RD16ST26-562J	5.6K	OHM 1/6W	1
R630	RO31T4272J	RC RD25ST26-272J	2.7K	OHM 1/4W	1
R631	RO31T4471J	RC RD25ST26-471J	470	OHM 1/4W	1
R632	RO31T6391J	RC RD16ST26-391J	390	OHM 1/6W	1
R633	RO31T6152J	RC RD16ST26-152J	1.5K	OHM 1/6W	1
R634	RO31T4103J	RC RD25ST26-103J	10K	OHM 1/4W	1
R635	RO31T6683J	RC RD16ST26-683J	68K	OHM 1/6W	1
R636	RO31T6123J	RC RD16ST26-123J	12K	OHM 1/6W	1
R637	RO31T4102J	RC RD25ST26-102J	1K	OHM 1/4W	1
R638	RO31T4271J	RC RD25ST26-271J	270	OHM 1/4W	1
R639	RO31T4271J	RC RD25ST26-271J	270	OHM 1/4W	1
R640	RO31T4271J	RC RD25ST26-271J	270	OHM 1/4W	1
R641	RO31T4103J	RC RD25ST26-103J	10K	OHM 1/4W	1
R642	RO31T6223J	RC RD16ST26-223J	22K	OHM 1/6W	1
R643	RO31T6471J	RC RD16ST26-471J	470	OHM 1/6W	1
R644	RO31T6331J	RC RD16ST26-331J	330	OHM 1/6W	1
R645	RO12T2681J	RC ERD-S1TJ681T	680	OHM 1/2W	1
R646	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R646	RO12T2822J	RC ERD-S1TJ822T	8.2K	OHM 1/2W	1
R647	RO31 14822J	RC RD25S-822J	8.2K	OHM 1/4W	1
R649	RO3114102J	RC RD25S-102J	1K	OHM 1/4W	1
R650	RO3114562J	RC RD25S-562J	5.6K	OHM 1/4W	1
R651	RO3114272J	RC RD25S-272J	2.7K	OHM 1/4W	1
R801	RO12T2105J	RC ERD-S1TJ105T	1M	OHM 1/2W	1
R802	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R803	RO12T2822J	RC ERD-S1TJ822T	8.2K	OHM 1/2W	1
R804	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R805	RO12T2822J	RC ERD-S1TJ822T	8.2K	OHM 1/2W	1
R806	RO12T2682J	RC ERD-S1TJ682T	6.8K	OHM 1/2W	1
R807	RO12R2822J	RC ERD-S1TJ822T	8.2K	OHM 1/2W	1
R808	RO31T6101J	RC RD16ST26-101J	100	OHM 1/6W	1
R809	R21102225K	R, SOLID ERL-12GK225	2.2M	OHM 1/2W	1
R810	RO31T6181J	RC RD16ST26-181J	180	OHM 1/6W	1
R811	RO12T2272J	RC ERD-S1TJ272T	2.7K	OHM 1/2W	1
R812	RO31T6271J	RC RD16ST26-271J	270	OHM 1/6W	1
R814	RO31T6272J	RC RD16ST26-272J	2.7K	OHM 1/6W	1
R814	RO31T6272J	RC RD16ST26-272J	2.7K	OHM 1/6W	1
R816	RO31T6181J	RC RD16ST26-181J	180	OHM 1/6W	1
R817	RO12T2272J	RC ERD-S1TJ272T	2.7K	OHM 1/2W	1
R819	RO12T2272J	RC ERD-S1TJ272T	2.7K	OHM 1/2W	1
R820	RO12T2272J	RC ERD-S1TJ272T	2.7K	OHM 1/2W	1
R851	RO31T6103J	RC RD16ST26-103J	10K	OHM 1/6W	1
R853	RO31T6183J	RC RD16ST26-183J	18K	OHM 1/6W	1
R854	RO31T6472J	RC RD16ST26-472J	4.7K	OHM 1/6W	1
R857	RO31T4104J	RC RD25ST26-104J	100K	OHM 1/4W	1
R858	RO31T6822J	RC RD16ST26-822J	8.2K	OHM 1/6W	1
		- CAPACITORS -			
C101	E021T3100M	CE 25TWMS100MTA	10 μF	25V	1
C102	E021T5R47M	CE 50TWMSR47MTA	0.47 μF	50V	1

ELECTRICAL FOR MODEL COLOR 2001 RC

REF. NO.	PARTS NO.	DESCRIPTION			Q'TY
C103	E021T3100M	CE 25TWMS100MTA	10 µF	25V	1
C104	E021T52R2M	CE 50TWMS2R2MTA	2.2 µF	50V	1
C105	E021T3100M	CE 25TWMS100MTA	10 µF	25V	1
C107	E02102221M	CE 16TWMS221M	220 µF	16V	1
C108	C02TF04H4Z	CC RTHE90SJYF223Z	0.022 µF		1
C109	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C110	E021T2220M	CE 16TWMS220MTA	22 µF	16V	1
C111	E021T50R1M	CE 50TWMSOR1MTA	0.1 µF	50V	1
C112	E021T52R2M	CE 50TWMS2R2MTA	2.2 µF	50V	1
C113	E021T2220M	CE 16TWMS220MTA	22 µF	16V	1
C114	E021T2470M	CE 16TWMS470MTA	47 µF	16V	1
C115	P12100104K	CP 50F2S104K	0.1 µF	50V	1
C116	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C117	C02TF04H4Z	CC RTHE90SJYF223Z	0.022 µF		1
C118	C02TF04H4Z	CC RTHE90SJYF223Z	0.022 µF		1
C119	C02TF04H4Z	CC RTHE90SJYF223Z	0.022 µF		1
C120	C02TSL4H2K	CC RTHE70SJSL221K	220 pF	SL	1
C121	C02TSK4H2K	CC RTHE70SJSL221K	220 pF	SL	1
C122	E021T52R2M	CE 50TWMS2R2MTA	2.2 µF	50V	1
C123	E021F3471M	CE 25TWMS471MCK	470 µF	25V	1
C301	C02FSL512K	CC HM60SJSL101K	100 pF	500V SL	1
C303	E0250B4R7M	CE 160TWS4R7M	4.7 µF	160V	1
C304	E021T3100M	CE 25TWMS100MTA	10 µF	25V	1
C305	C02FB05Q3K	CC HM13SJYB472K	0.0047 µF	500V B	1
C401	E021T54R7M	CE 50TWMS4R7MTA	4.7 µF	50V	1
C402	P121T0152K	CP 50F2S152K	0.0015 µF	50V	1
C403	C02TSL402K	CC RTHE11SJSL681K	680 pF	50V SL	1
C404	P121TD273K	CP 50F2S273K	0.027 µF	50V	1
C405	P121T0683K	CP 50F2S683K	0.068 µF	50V	1
C406	E021T52R2M	CE 50TWMS2R2MTA	2.2 µF	50V	1
C407	E021F2221M	CE 16TWMS221MCK	220 µF	16V	1
C408	P121T0103K	CP 50F2S103K	0.01 µF	50V	1
C409	C02FSL5L2K	CC HM60SJSL331K	330 pF	500V SL	1
C410	E021F4101M	CE 35TWMS101MCK	100 µF	35V	1
C411	E021F3102M	CE 25TWMS102MCK	1000 µF	25V	1
C412	E021F4101M	CE 35TWMS101MCK	100 µF	35V	1
C413	P613F0104J	CMPL ECQV05104JBW	0.1 µF	50V	1
C414	P121T0103K	CP 50F2S103K	0.01 µF	50V	1
C414	P121T0123K	CP 50F2S123K	0.012 µF	50V	1
C415	P12100104K	CP 50F2S104K	0.1 µF	50V	1
C416	P441F2824J	CMPP DHS-824J-200V	0.82 µF	200V	1
C417	P343F9102J	CPP DTB-912J-1600V	0.0091 µF	1600V	1
C419	C02FSL512K	CC HM60SJSL101K	100 pF	500V SL	1
C420	P121T0473K	CP 50F2S473K	0.047 µF	50V	1
C421	P121T0333K	CP 50F2S333K	0.033 µF	50V	1
C422	P121T0103K	CP 50F2S103K	0.01 µF	50V	1
C423	P541F0562J	CPL DSR-562J-50V	0.0056 µF	0V	1
C424	E021T2470M	CE 16TWMS470MTA	47 µF	16V	1
C425	E021T2220M	CE 16TWMS220MTA	22 µF	16V	1
C426	E021T54R7M	CE 50TWMS4R7MTA	4.7 µF	50V	1
C427	E021T4220M	CE 35TWMS220MTA	22 µF	35V	1
C428	E024TB010M	CE 160TWMS010M	1 µF	160V	1
C429	C02FSL5H1K	CC HM60SJSL220K	22 µF	500V SL	1
C430	C02FSL5S2K	CC HM60SJSL561K	560 pF	500V SL	1
C431	E025TB010M	CE 160TWS010M	1 µF	160V	1
C432	P441F2564J	CMPP DHS-564J-200V	0.56 µF	200V	1
C433	P121T0683K	CP 50F2S683K	0.068 µF	50V	1
C434	P341F1223J	CPP DTW-223J-100V	0.022 µF	100V	1

ELECTRICAL FOR MODEL COLOR 2001 RC

REF. NO.	PART NO.	DESCRIPTION			Q'TY
C436	E021F4471M	CE 35TWMS471MCK	470 µF	35V	1
C438	P341F2104J	CPP DTW-104J-200V	0.1 µF	200V	1
C440	C02TSL4U2K	CC UP125SL5615A	560 pF	50V	1
C441	E021F3471M	CE 25TWMS471MCK	470 µF	25V	1
C442	E025FD4R7M	CE 250TWS4R7M	4.7 µF	250V	1
C501	C02TF04H4Z	CC RTHE90SJYF223Z	0.022 µF		1
C503	C02FB07H3K	CC HS15SJYB222K	0.0022 µF	2KV B	1
C504	C02FB07H3K	CC HS15SJYB222K	0.0022 µF	2KV B	1
C505	C02FB07H3K	CC HS15SJYB222K	0.0022 µF	2KV B	1
C506	E01CDH101M	CE ECES2GV101Z	100 µF	400V	1
C507	P444DB474M	CMPP DHP-474M-250V	0.47 µF	250V	1
C508	P44209332J	CMPP DKR-332J-1600V	0.0033 µF	1600V	1
C509	E025FB101M	CE 160TWS101M	100 µF	160V	1
C510	E021T54R7M	CE 50TWMS4R7MTA	4.7 µF	50V	1
C511	C02FB07H3K	CC HS15SJYB222K	0.0022 µF	2KV B	1
C601	CF4TUJ4B2J	CC UP250UJ121A	120pF	50V	1
C602	E021T2101M	CE 16TWMS101MTA	100 µF	16V	1
C603	C02TF0414Z	CC RTHE70SJYF103Z	0.01 µF	F	1
C604	C02FRH431K	CC HE50SJRH300K	30pF		1
C605	C02TBH4H1K	CC RTHE40SJR220K	22 pF	N220	1
C606	C02TBH4H1K	CC RTHE40SJR300K	30 pF	N220	1
C607	CF4TX0314M	CC TP125X103MA	0.01 µF	25V	1
C608	CD2TF0414Z	CC RTHE70SJYF103Z	0.01 µF	F	1
C610	C02TF0414Z	CC RTHE70SJYF103Z	0.01 µF	F	1
C611	E02ET5010M	CE 50NWR47M	1 µF	50V	1
C612	C02TF0414Z	CC RTHE70SJYF103Z	0.01 µF	F	1
C614	E021T3100M	CE 25TWMS100MTA	10 µF	25V	1
C615	E021T3100M	CE 25TWMS100MTA	10 µF	25V	1
C616	E021T3100M	CE 25TWMS100MTA	10 µF	25V	1
C617	C02TSK4U2J	CC RTHE11SJSL681J	680 pF	SL	1
C609	E021T53R3M	CE 50TWMS3R3MTA	3.3 µF	50V	1
C618	CF4TSL4Q1J	CC UP125SL470JA	47 pF	50V	1
C619	E02E02100M	CE 16NW100M	10 µF	16V	1
C621	E02102471M	CE 16TWMS471M	470 µF	16V	1
C622	C021F04H4Z	CC RTHE90SJYF2232	0.022 µF		1
C623	C02TF0414Z	CC RTHE70SJYF103Z	0.01 µF	F	1
C625	C02TF0414Z	CC RTHE70SJYF103Z	0.01 µF	F	1
C627	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C628	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C629	E02E024R7M	CE 16NW4R7M	4.7 µF	16V	1
R631	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C633	C02TSL4W1K	CC RTHE50SJSL820K	82pF	SL	1
C634	CF4TSL4E2J	CC UP250SL151JA	150pF	50V SL	1
C635	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C636	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C637	E021T53R3M	CE 50TWMS3R3MTA	3.3 µF	50V	1
C638	P121T0153K	CP 50F2S153K	0.015 µF	50V	1
C639	P121T0153K	CP 50F2S153K	0.015 µF	50V	1
C640	C02TSL4W1K	CC RTHE50SJSL820K	82 pF	SL	1
C641	E02E024R7M	CE 16NW4R7M	4.7 µF	16V	1
C801	C02TSL4S2K	CC RTHE95SJSL561K	560pF	SL	1
C802	C02TSL4S2K	CC RTHE95SJSL561K	560pF	SL	1
C803	C02TSL4S2K	CC RTHE95SJSL561K	560pF	SL	1
C804	C020B0713K	CC HS11SJYB102K	0.001 µF	2KV B	1
C805	C03FE09H3M	CC DE141DE222M	2200 pF	4KV E	1
C806	C010B0613K	CC HS 11SJYB102K	0.001 µF	1KV	1
C851	E021T5010M	CE 50TWMS010MTA	1 µF	50V	1
C855	E02102100M	CE 16TWMS100M	10 µF	16V	1

REF. NO.	PARTS NO.	DESCRIPTION		Q'TY
		- SEMICONDUCTORS -		
IC101	I03D063580	INTEGRATED CIRCUIT	LA6358D	1
IC102	I53D030050	INTEGRATED CIRCUIT	OEC-3005	1
IC103	I2LS050020	INTEGRATED CIRCUIT	OEC-5002	1
IC401	I03D078200	INTEGRATED CIRCUIT	LA7820	1
IC402	I02SD13780	INTEGRATED CIRCUIT	μPC1378H	1
IC501	I039956300	INTEGRATED CIRCUIT	L5630	1
IC502	I2B3904510	INTEGRATED CIRCUIT	STR-451	1
IC601	I01D5620X0	INTEGRATED CIRCUIT	AN5620X	1
IC602	I01DE56120	INTEGRATED CIRCUIT	AN5612	1
Q101	TA2T007330	TRANSISTOR, SILICON	2SA733-T	1
Q102	TA2T007330	TRANSISTOR, SILICON	2SA733-T	1
Q103	TA2T007330	TRANSISTOR, SILICON	2SA733-T	1
Q104	TC20009450	TRANSISTOR, SILICON	2SC9450	1
Q105	TA20009520	TRANSISTOR, SILICON	2SA952	1
Q106	TC2T009450	TRANSISTOR, SILICON	2SC945-T	1
Q107	TA3T006080	TRANSISTOR, SILICON	2SA608NP-T	1
Q108	TC2T009450	TRANSISTOR, SILICON	2SC945-T	1
Q109	TC2T009450	TRANSISTOR, SILICON	2SC945-T	1
Q110	TC2T009450	TRANSISTOR, SILICON	2SC945-T	1
Q111	TD20004710	TRANSISTOR, SILICON	2SD471	1
Q112	TB20007720	TRANSISTOR, SILICON	2SB772	1
Q301	TC30022710	TRANSISTOR, SILICON	2SC2271	1
Q302	TC30022710	TRANSISTOR, SILICON	2SC2271	1
Q401	TC30022710	TRANSISTOR, SILICON	2SC2271	1
Q402	TD30013970	TRANSISTOR, SILICON	2SD1397	1
Q601	TC20009450	TRANSISTOR, SILICON	2SC9450	1
Q602	TC20009450	TRANSISTOR, SILICON	2SC9450	1
Q603	TC20009450	TRANSISTOR, SILICON	2SC9450	1
Q801	TC30022710	TRANSISTOR, SILICON	2SC2271	1
Q802	TC30022710	TRANSISTOR, SILICON	2SC2271	1
Q803	TC30022710	TRANSISTOR, SILICON	2SC2271	1
Q850	TC2T009450	TRANSISTOR, SILICON	2SC945-T	1
Q851	TC2T009450	TRANSISTOR, SILICON	2SC945-T	1
D101	D13TGMAD10	DIODE, SILICON	GMA-01-BT	1
D102	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D103	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D104	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D105	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D106	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D107	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D108	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D109	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D110	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D111	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D112	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D113	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D114	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D115	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D116	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D117	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D118	0021720030	LED	SLR-54-UR4F	1
D119	0021720030	LED	SLR-54-UR4F	1
D120	0021720030	LED	SLR-54-UR4F	1
D121	0021720030	LED	SLR-54-UR4F	1
D122	0021720030	LED	SLR-54-UR4F	1

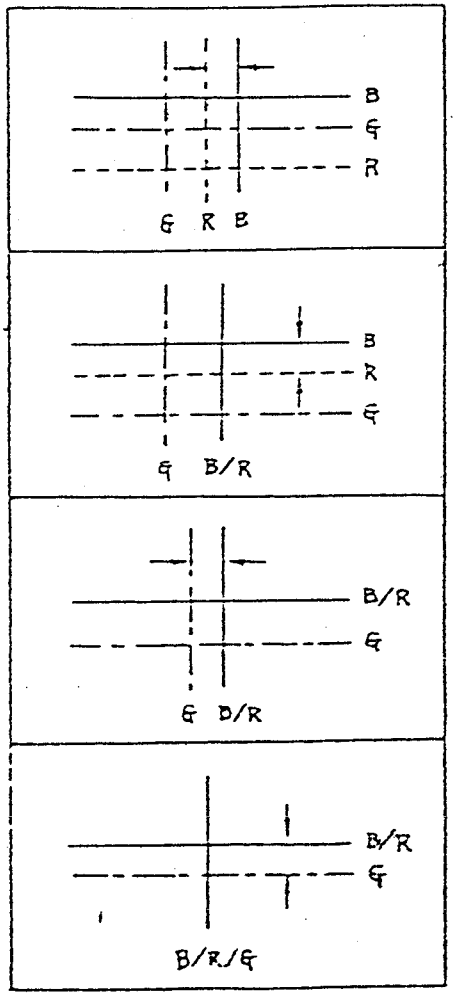
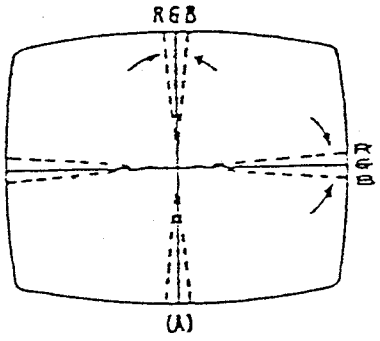
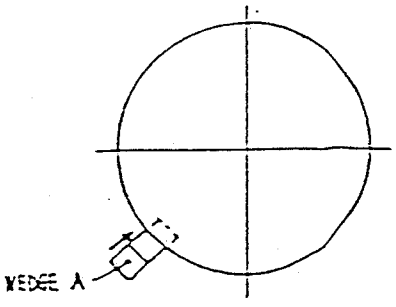
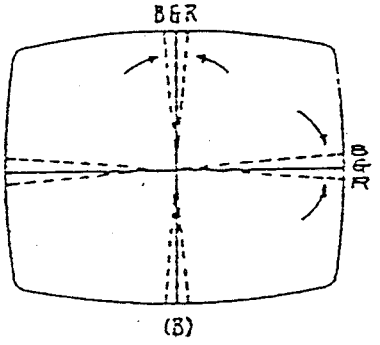


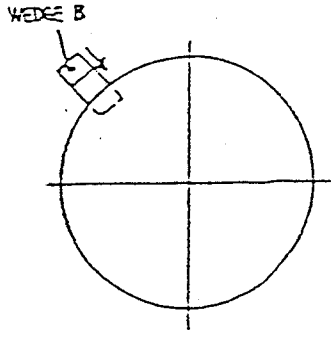
Figure 3. Static Convergence Adjustment



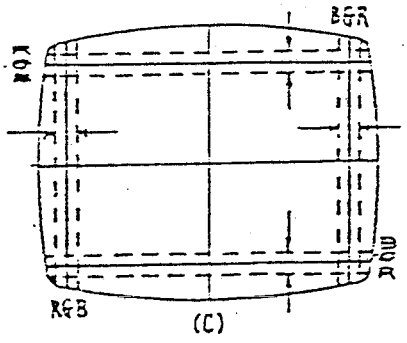


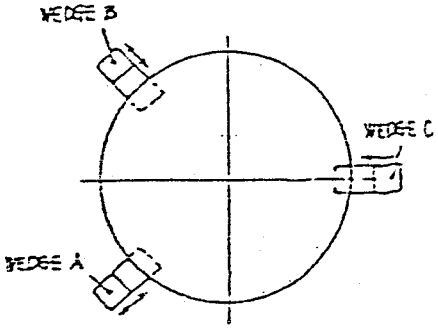
DEFLECTION YOKE REAR VIEW



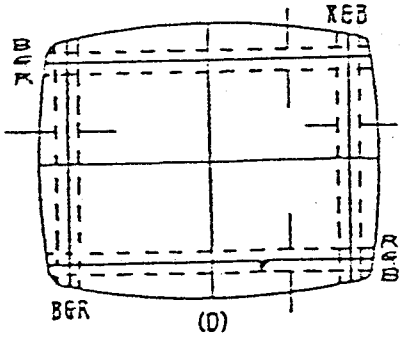


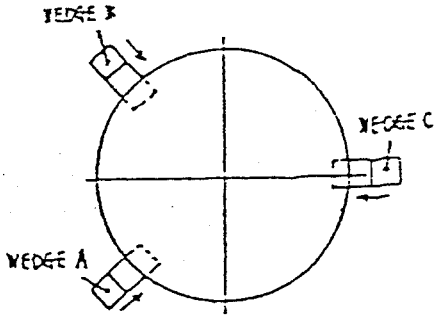
DEFLECTION YOKE REAR VIEW





DEFLECTION YOKE REAR VIEW





DEFLECTION YOKE REAR VIEW

Figure 4. Dynamic Convergence Adjustment

DYNAMIC CONVERGENCE

Dynamic convergence (convergence of the three color fields at the edges of the CRT screen) is accomplished by proper insertion and positioning of three rubber wedges between the edge of the deflection yoke and the funnel of the CRT.

This accomplished in the following manner.

1. Switch receiver ON and allow it to warm up for 10 minutes.
2. Apply crosshach pattern from Dot/Bar Generator to receiver. Observe spacing between lines around edges of CRT screen.
3. For the misconvergence shown in Figure 4 (A), tilt down the deflection yoke and insert the wedge A between deflection yoke and CRT.
4. For the misconvergence shown in Figure 4 (B), tilt up the deflection yoke and insert the wedge B between deflection yoke and CRT.
5. For the misconvergence shown in Figure 4 (C), tilt left side of the deflection yoke and slightly insert the wedge C between deflection yoke and CRT. Then, deeply insert the wedges A and B between deflection yoke and CRT.
6. For the misconvergence shown in Figure 4 (D), tilt right side of the deflection yoke and deeply insert the wedge C between deflection yoke and CRT. Then, slightly insert and/or extract the wedges A and B between deflection yoke and CRT.
7. Alternately change spacing between, and depth of inserting of, the three wedges until proper dynamic convergence is obtained.
8. Use a strong adhesive tape to firmly secure each of the three rubber wedges to the funnel of the CRT.

BLACK AND WHITE TRACKING

The purpose of this procedure is to adjust the biases applied to the picture tube to obtain good black and white picture reproduction at all brightness levels while, at the same time achieving maximum useable brightness. Proper RF AGC control adjustment have been verified prior to performing this procedure.

1. With antenna connected to the receiver, tune in picture on a strong received channel. Depress Auto Knob to OFF position. Rotate the color control to maximum CCW position and misadjust the tuning control so that the receiver will not produce a color picture while the following adjustment are being performed.
2. Rotate the red and blue drive control fully CW and then back CCW center of their rotation ranges.
3. Rotate the green, red and blue bias controls to the full CCW end of their rotation.
4. Set normal-service switch to service position. Adjust the voltage of test point (collector of green output transistor on CRT PCB) to DC 120 volts with brightness control. Voltage measurement should be measured with oscilloscope.
5. Rotate the screen control to the full CCW end of its rotation. Then, rotate it CW until a dim line of one pronounced color (green, red or blue) is obtained.
6. The other two color bias controls must be rotated CW until a dim white line is obtained.
7. Set normal-service switch to normal position.
8. If required, touch-up adjustment of the red and blue drive controls to produce a uniform monochrome picture.
9. Rotate the brightness and contrast controls fully CCW.
10. Rotate the btightness control CW until a dim raster is obtained.
11. If the screen does not display good white uniformity, step 2 through 10 this procedure must be repeated.

(CW: clock wise CCW: counter clock wise)

SUB H-HOLD AND H-HOLD ADJUSTMENT

1. Receive the snowy station (free-run).
2. Connect frequency counter to CRT heater.
3. Rotate H-Hold control fully counter-clockwise.
4. Adjust VR403 to obtain 14300 Hz reading.
5. Receive the signal of test pattern.
6. Adjust H-Hold control (VR105) to obtain 15630 Hz reading.

APC ADJUSTMENT

1. Receive the signal of color bar.
2. Connect voltmeter between TP4 to TP5.
3. Set TC682 to center position.
4. Adjust TC681 to obtain a minimum voltage reading.

HUE DELAY ADJUSTMENT

1. Receive the signal of DEM pattern,
2. Connect oscilloscope (A) and (B) to TP6 and TP7.
3. Adjust waveform to straight line with L602, VR605 and TC682.

STATIC CONVERGENCE ADJUSTMENT

(Refer to Figure 2 & 3)

IMPORTANT: Before proceeding, check location of the purity/convergence magnet assembly on the neck of the CRT as shown in Figure 2. The rear edge of this assembly must be positioned 18mm from the tip of the CRT base. If not properly positioned, convergence adjustment may be difficult, it not impossible.

1. Apply dot or crosshatch pattern from Dot/Bar Generator to receiver. Reduce setting of brightness and/or contrast controls to eliminate any blooming in pattern.
2. Ratate green bias control fully CCW.
3. Observe the blue and red pattern now appering on the CRT screen. Locate the 4 pole magnet rings and separate their adjusting tabs approximately the width of one tab.
4. Rotate this pair of magnet rings as a unit (do not change spacing between tabs) to minimize the separation between the blue and red dots (lines).
5. If the blue and red dots (lines) are not completely converget at this paints, readjust the spacing between the two tabs to complete convergence of the blue and red dots (lines), thus producing magenta dots (lines).
6. If necessary, repeat steps 3,4 and 5 until proper convergence is achieved.
7. Rotate green bias control CW until proper green level is restored and observe the magenta (B/R) and green pattern now appearing on CRT screen.
8. Locate the 6 pole magnet rings and separate their adjusting tabs approximately the width of one tab.
9. Rotate this pair of magnet rings a unit (do not change spacing between tabs) to minimize the separation between the magenta (B/R) and green dots (lines).
10. If the magenta and green dots (lines) are not completely converged at this point, readjust the spacing between the two tabs to complete convergence of the magenta and green dots (lines).
11. If necessary, repeat steps 8, 9 and 10 until proper convergence is obtained. To prevent accidental misadjustment of the magnets, apply a stripe of paint across all six rings and on to the neck of the CRT.

COLOR PURITY ADJUSTMENT

The receiver must have been operating 10 minutes prior to this procedure and the faceplate of the CRT must be at room temperature. The following procedure is recommended while using a Dot/Bar Generator.

1. Check for correct location of all neck components. (Refer to Figure 2.)
2. Rough-in the static convergence at the center of the CRT, as explained in the static convergence procedure.
3. Rotate the contrast control to maximum CCW position and rotate brightness control as for CW as possible without causing the picture to "bloom".
4. Rotate the red bias and blue bias controls to maximum CCW position. Rotate the green bias control sufficiently in a CW direction to produce a green raster.
5. Loosen the deflection yoke clamp screw and pull the deflection yoke toward the rear of the CRT.
6. Begin the following adjustment with the tabs on the round purity magnet rings set together, slowly separate the two tabs while at the same time rotating them to adjust for a uniform green stripe at the center of the CRT screen.
7. Carefully slide the deflection yoke forward to achieve green purity (uniform green screen).

NOTE: Center purity was obtained by adjusting the tabs on the round purity magnet rings, outer edge purity was obtained by sliding the deflection yoke forward.

8. Check for red and blue field purity by reducing the output of the green bias control and alternately increasing output of red and blue bias controls and touch up adjustments, if required.
9. Tighten deflection yoke clamp screw.

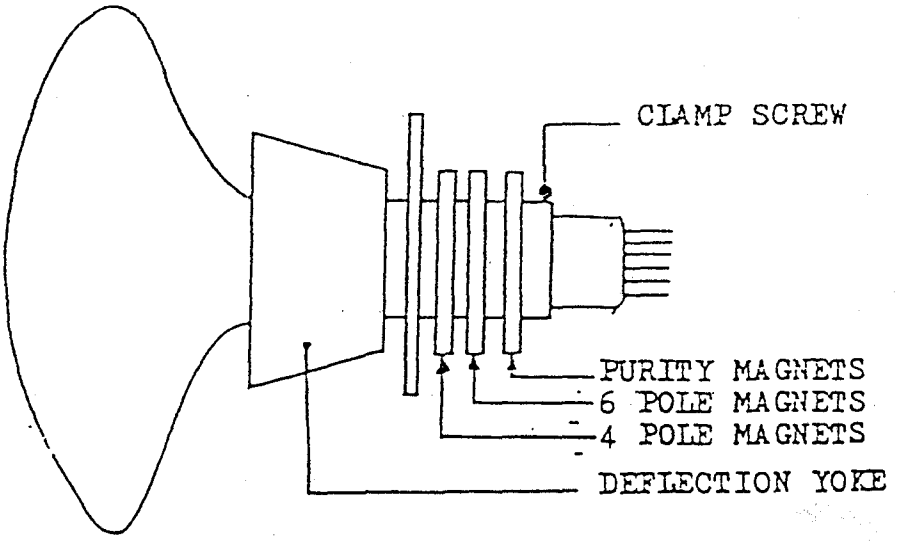
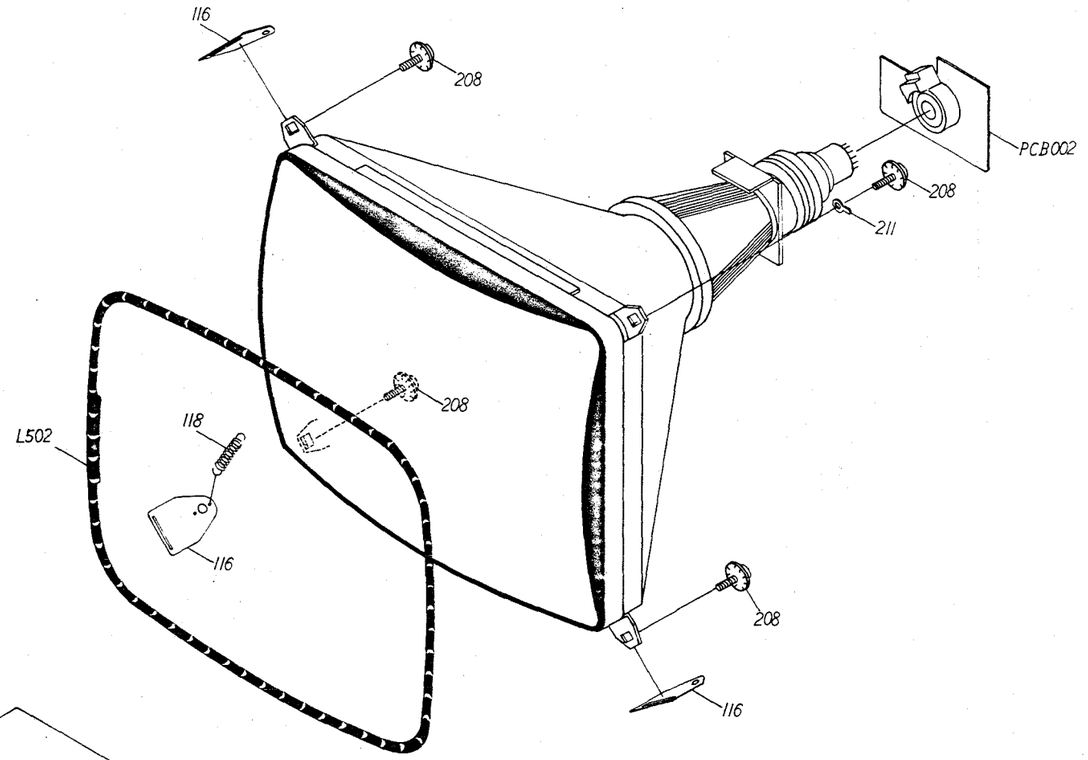
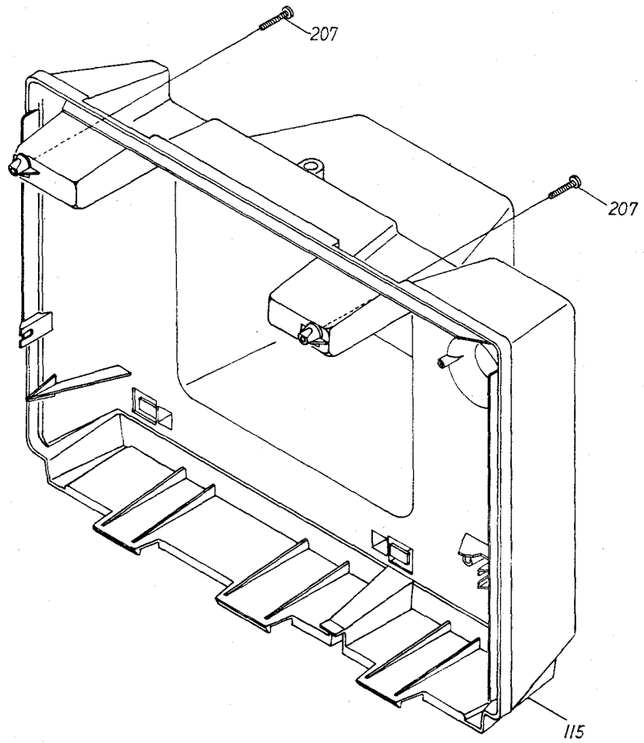
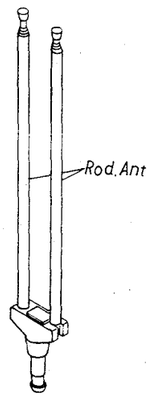
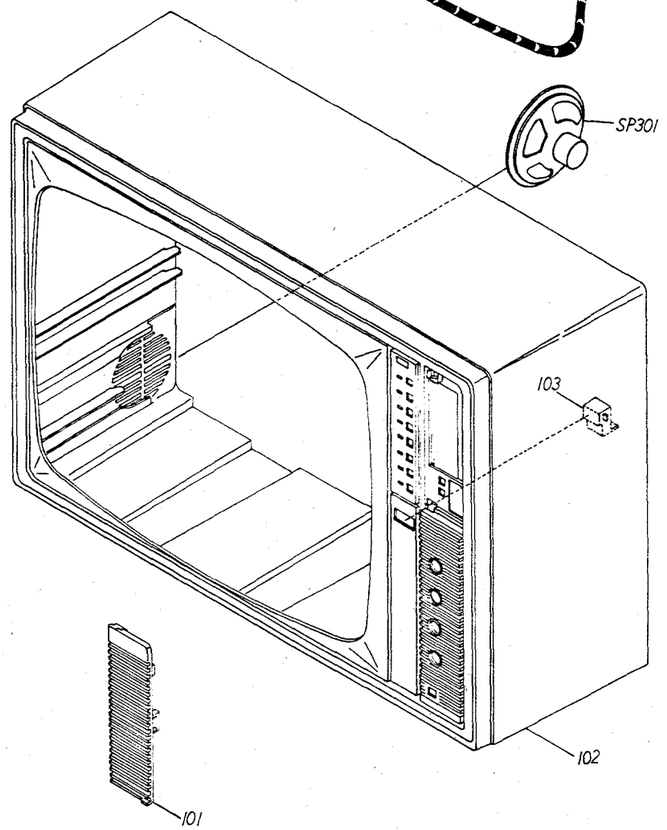


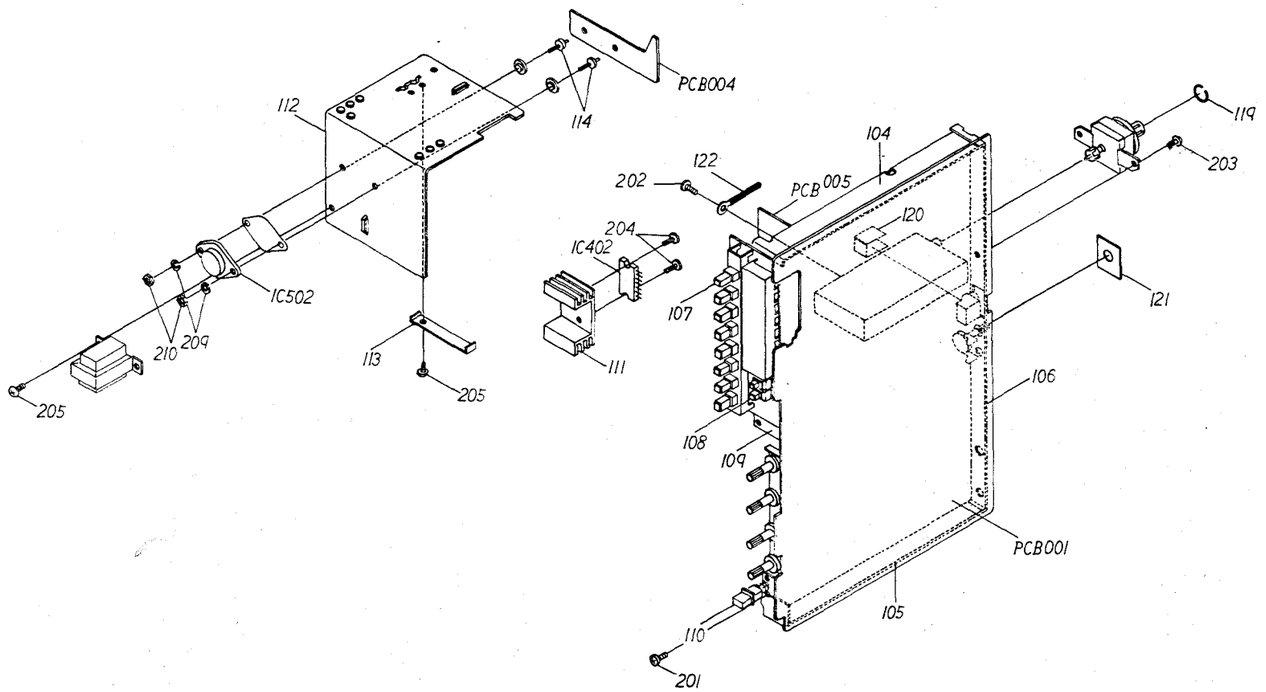
Figure 2. Picture Tube Neck Component Location


116
208
PCB002
208
211
208
L502
118
116
208
116


207
207
115


Rod.Ant


SP301
103
102
101


PCB004
112
114
119
104
122
202
PCB005
203
204
120
IC402
121
107
IC502
210
209
113
205
205
111
106
108
109
PCB001
105
110
201

14PR
1-2365

PARTS LIST FOR MODEL TYPE COLOR 2001 RC

KEY NO.	PART NO.	DESCRIPIOTN.		Q'TY
101	712JPB0013	Door		1
"	800JF00052	Sheet	14x3.5	1
102	701JPJ0105	Cabinet, Front		1
"	713JPA0027	Glass LED		1
"	7230000165	Plate, Color		1
"	7240000010	Sheet, Warning		1
103	711JPA0021	Plate, Receiver		1
104	761JSA0143	Frame P.C.B.(1)		1
105	761JSA0144	Frame P.C.B.(2)		1
106	761JSA0145	Frame P.C.B.(3)		1
"	7240000006	Sheet, Transless Caution		1
107	735JPA0083	Button, Channel		8
108	735JPA0082	Button, AFT		2
109	761JSA0147	Angle P.C.B		1
110	735JPA0026	Button, Power Switch		1
111	763JAA0025	Heat Sink, OS		1
112	763JAA0022	Heat Sink, Power		1
113	744JUA0031	Spring, Power TR.		1
114	788JSE0003	Screw, IC		2
115	702JPA0069	Cabinet, Rear		1
"	7222020068	Plate, Rating		1
"	800JQ00041	Sheet	18x165	1
"	800JQ00042	Sheet	18x360	1
"	800JQ00043	Sheet	18x270	1
116	751JPA0001	Plate, Earth Wire		3
118	741JUA0001	Spring, C.R.T Earth		1
119	749JUA0002	Spring, Antenna		1
120	755JPA0005	Cover, V-Hold		1
121	755JPA0007	Cover, Earphone		1
122	899PEC0340	Cord Clamp		1
201	810B130501	Sems B	M3x5	1
202	810A130504	Sems A	M3x5	1
203	8107630604	Tap Tite(S)	M3x6	1
204	8102230801	Bind	M3x8	2
205	8110630604	Tap Tite(P)	M3x6	2
207	8119240C52	Tapping		2
208	8141150B04	Tap Tite(P)	M5x20	4
209	82B3059084	SP Wash 3		2
210	8300230004	Nut M3		2
211	901B070000	Earth Lug	5.4(B7)	1

VIDEO IF AND AFC ALIGNMENT

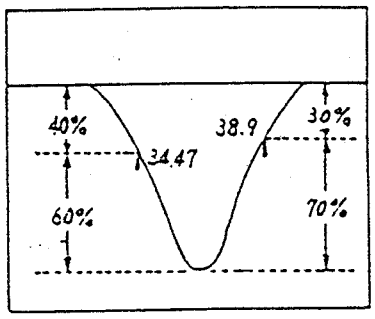
(Refer to Figure 5)

TEST EQUIPMENT CONNECTION

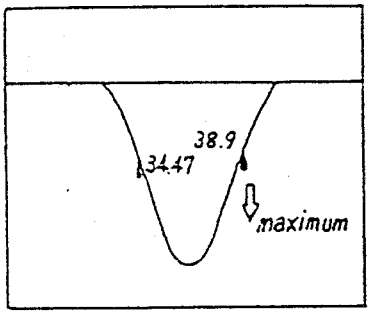
OSCILLOSCOPE ... Set AC-DC switch to AC position.

SWEEP-MARKER GENERATOR ... Connect H SCOPE and V SCOPE output cable from SWEEP-MARKER GENERATOR to H and V input connectors on OSCILLOSCOPE, connect red lead of SWEEP-MARKER OUTPUT cable to test point TP on TV tuner; connect black lead to chassis ground. Connect yellow lead of SWEEP-MARKER GENERATOR FROM TP cable to NO.2 of 12 pin connector; connect black lead to chassis ground.

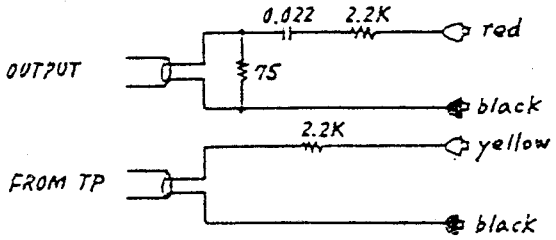
STEP	ADJUSTMENT	COMPONENT	PROCEDURE
1	Connect 100 ohm resistor between T7401.		
2	Connect AGC volume between TP(AGC) to +12V. Adjust AGC volume not to saturate.		
3	VIF X'fmr	T7401	Adjust T7401 to obtain maximum amplitude of response curve. (Refer to Response Curve "A")
4	Disconnect 100 ohm resistor.		
5	IFT on TV tuner		Adjust IFT on TV tuner to obtain maximum amplitude of response curve at 38.9MHz. (Refer to Response Curve "B")
6	Disconnect yellow lead of SWEEP-MARKER FROM TP cable. Connect digital coltmeter to AFC output pin on TV tuner.		
7	Turn on the AFT switch. Turn AGC volume to maximum gain(TP(AGC) about 4.3V)		
8	AFT X'fmr	L7401	Turn L7401 core gradually. Adjust AFT coltage to 6.5V while AFT voltage is changing quickly.
9	Disconnect AGC volume.		



Response Curve "A"



Response Curve "B"



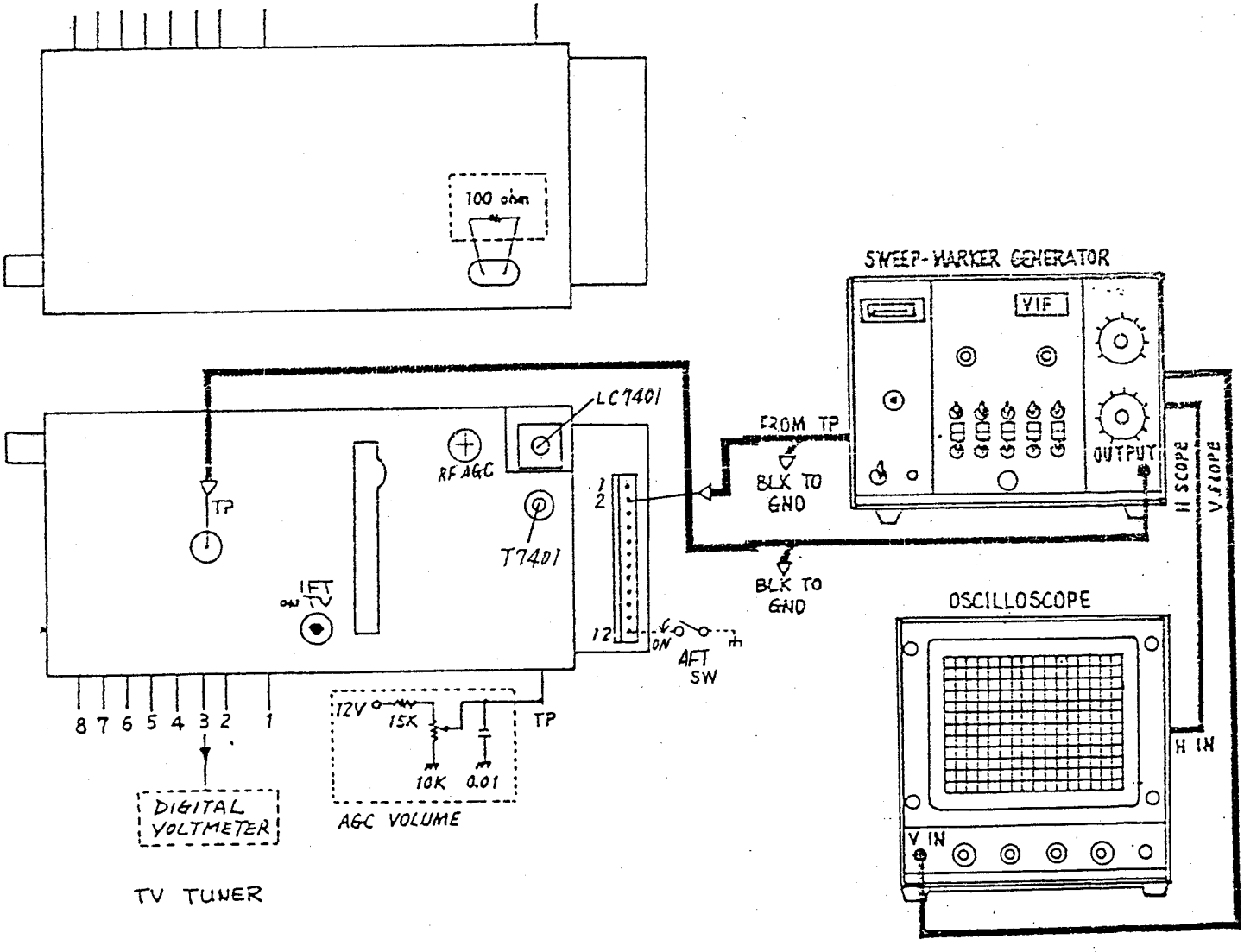
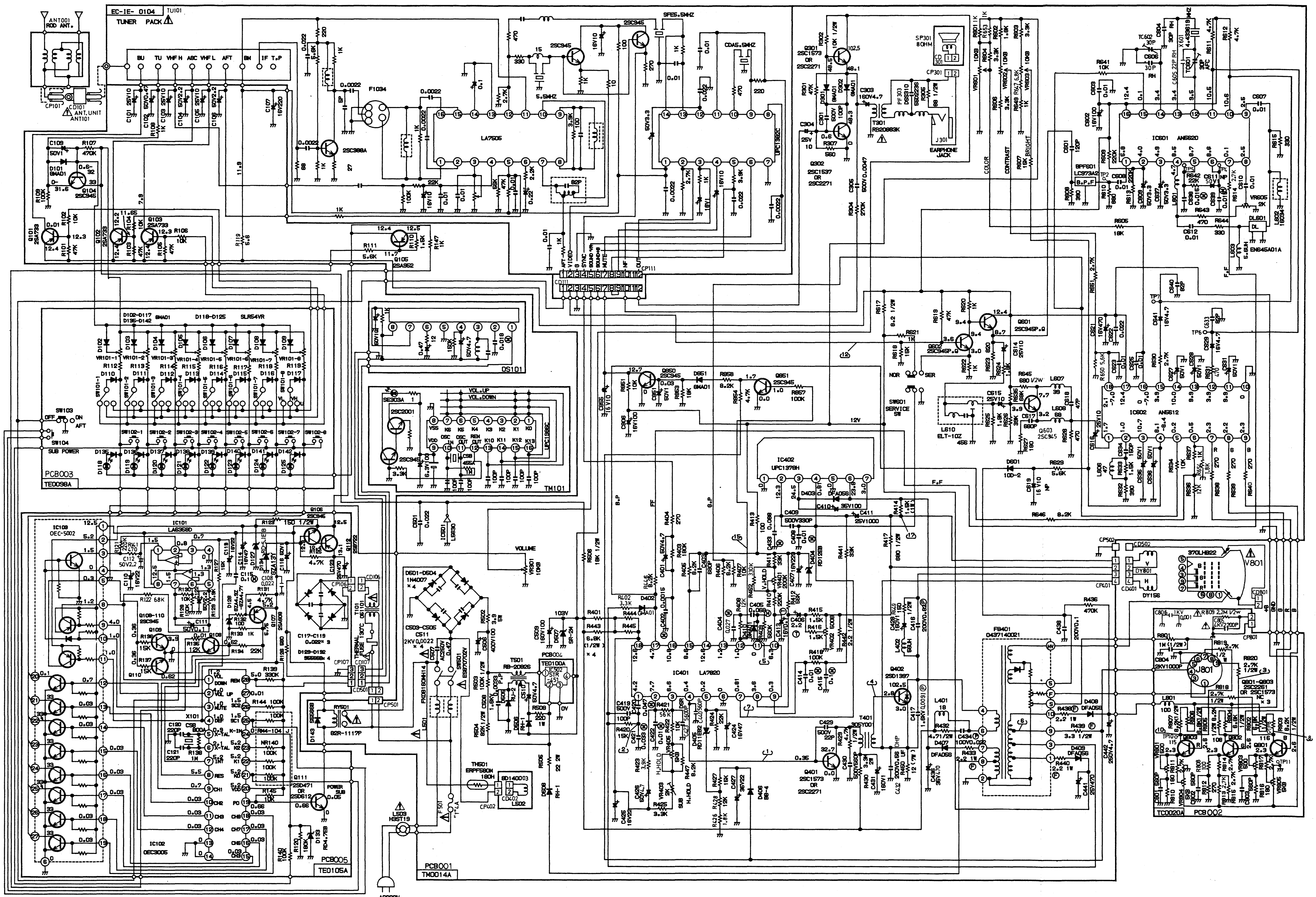
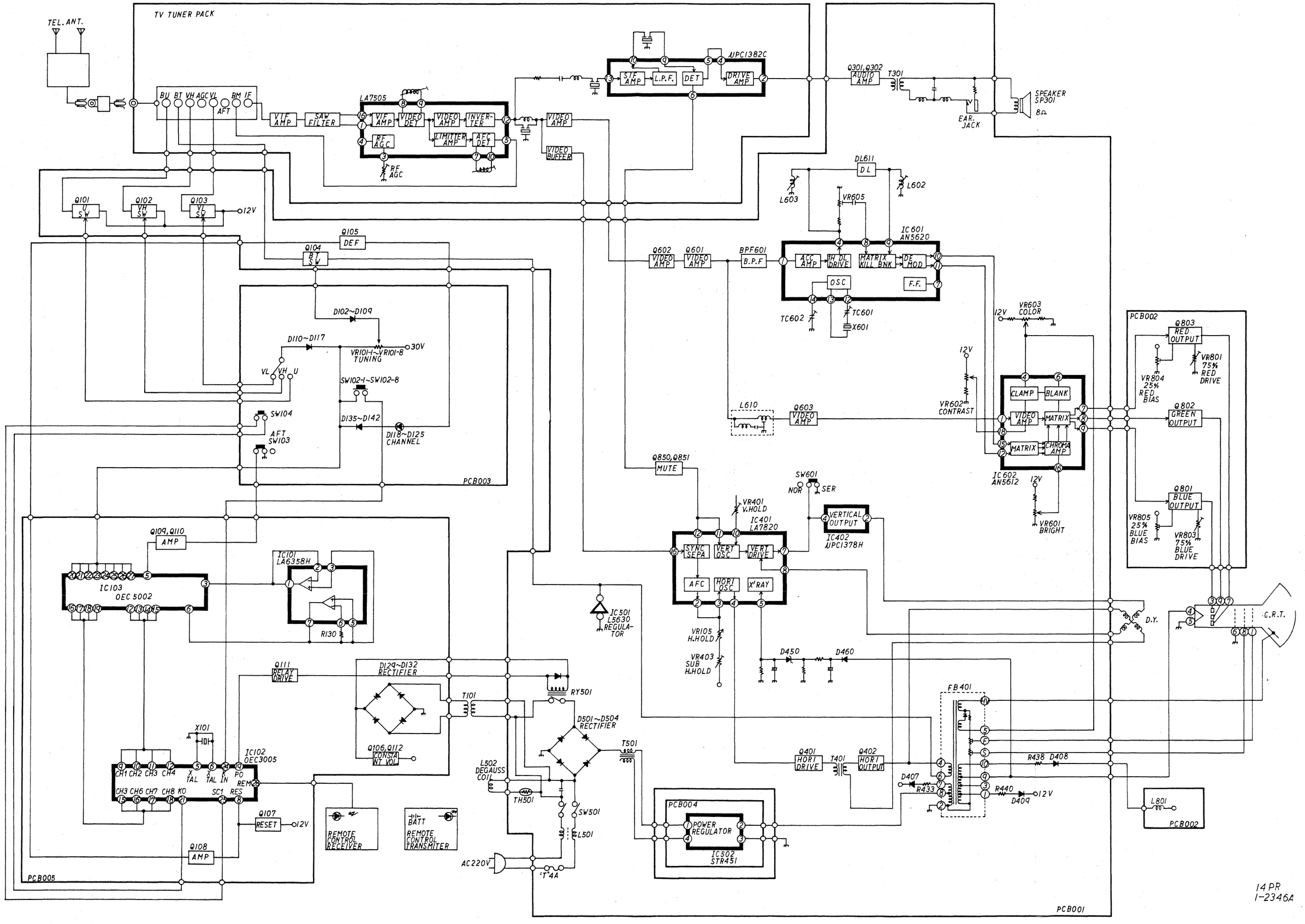


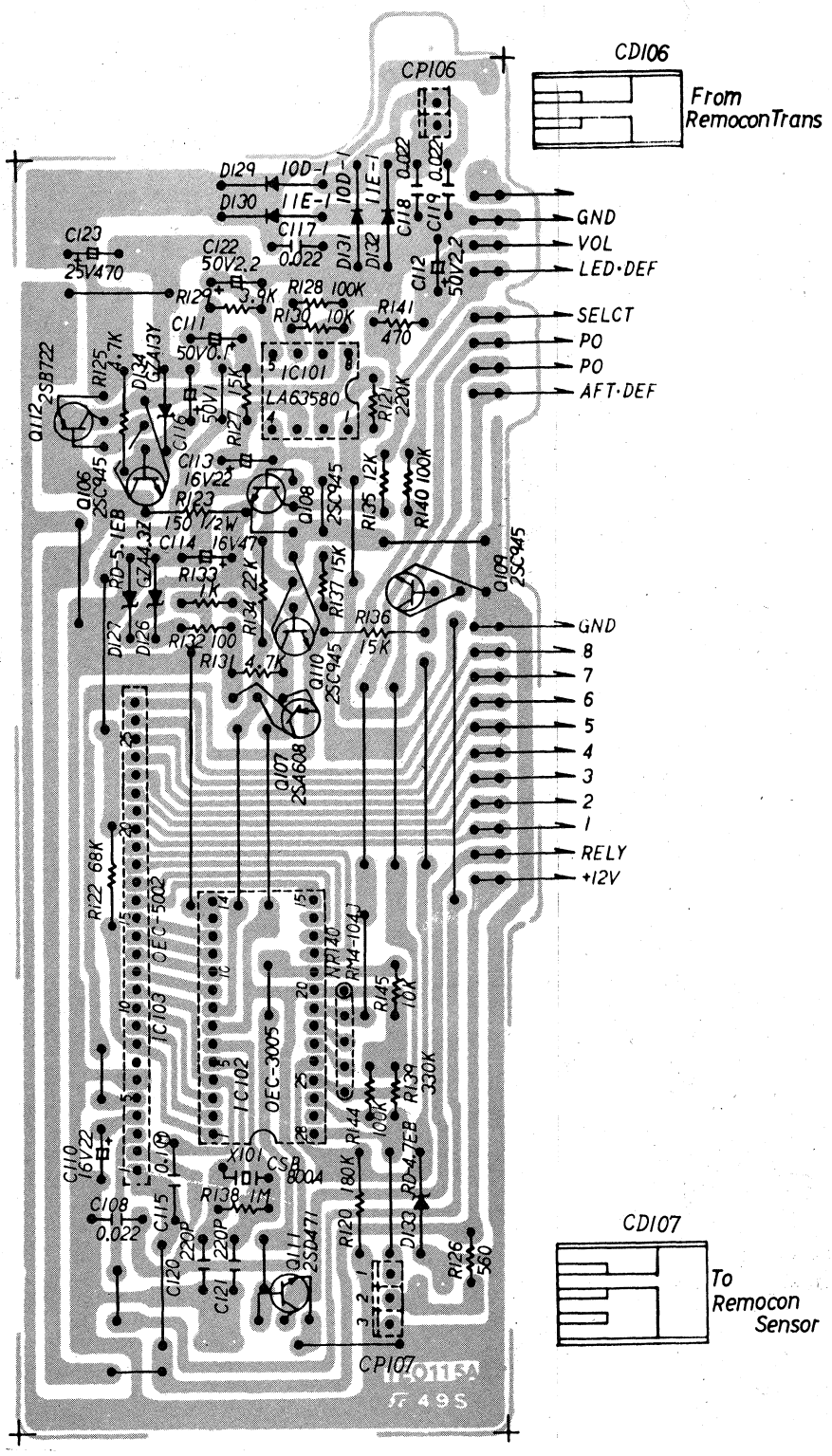
Figure 5 Video IF and AFC Alignment


EC-IE- 0104
TU101
TUNER PACK
ANT001 ROD ANT.
ANT.UNIT ANT101
LA7505
UPC1382C
SFE5.5MHZ
CDA5.5MHZ
SP301 8OHM
EARPHONE JACK
IC601 AN5620
IC602 AN5612
BPF601 LC973A2
DL601 EN645A01A
COLOR
CONTRAST
BRIGHT
Q601 2SC945P.Q
Q602 2SC945P.Q
Q603 2SC945
SW601 SERVICE SW
NOR
SER
L610 ELT-10Z
PCB003
TE0098A
SW103
SW104
SUB POWER
DS101
TM101
UPC1986C
VOL.UP
VOL.DOWN
IC103 OEC-5002
IC101 LA6358D
IC102 OEC3005
PCB005
TE0105A
D501-D504 1N4007
VOLUME
VR301 10KB
T501 RB-20826
PCB004
TED100A
IC502 STR-451
TH501 ERPF580M
L503 H3ST19
AC220V 50HZ
PCB001
TM0014A
IC402 UPC1378H
IC401 LA7820
H.HOLD
V.HOLD
FB401 0437140021
T401 305Y001
Q402 2SD1397
Q401 2SC1573 OR 2SC2271
370LHB22
V801
DY801
DY156
J801
Q801-Q803 2SC2261 OR 2SC1573
PCB002
TC0020A

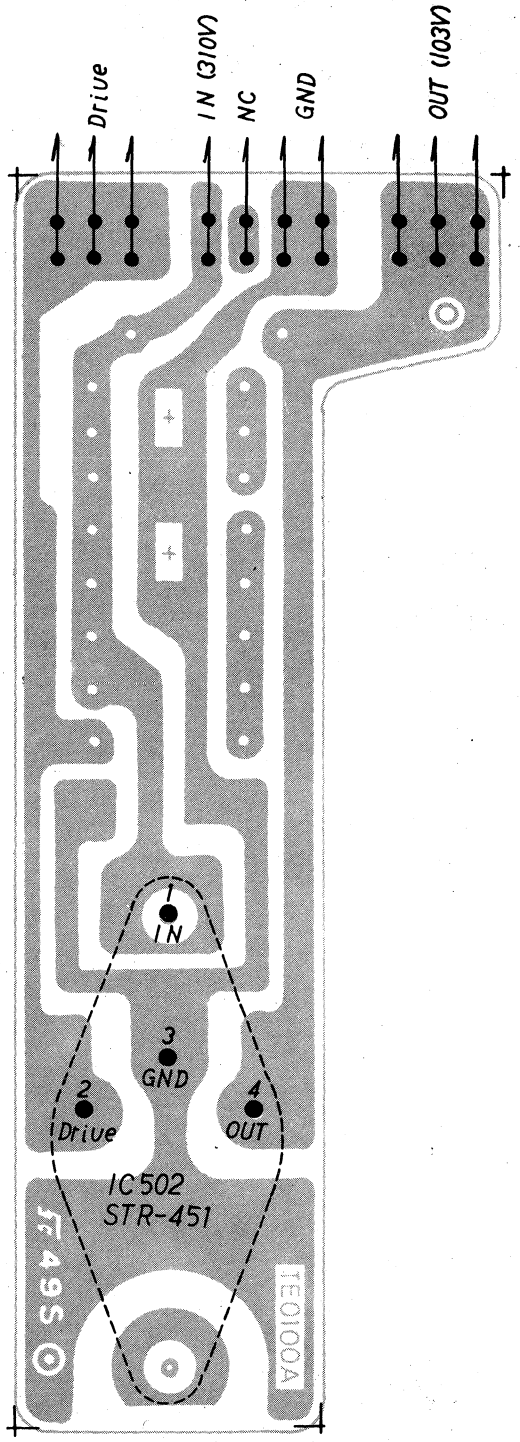
14PR
1-2376


TV TUNER PACK
TEL. ANT.
BU BT VH AGC VL BM IF
AFT
VIF AMP
SAW FILTER
LA7505
VIF AMP
VIDEO DET
VIDEO AMP
INVERTER
LIMITTER AMP
AFC DET
RF AGC
RF AGC
VIDEO AMP
VIDEO BUFFER
UPC1382C
SIF AMP
L.P.F.
DET
DRIVE AMP
Q301, Q302
AUDIO AMP
T301
EAR. JACK
SPEAKER SP301
8Ω
Q101 U SW
Q102 VH SW
Q103 VL SW
12V
Q105 DEF
Q104 BT SW
D102~D109
D110~D117
VR101-1~VR101-8 TUNING
30V
VL VH U
SW102-1~SW102-8
SW104
AFT SW103
D135~D142
D118~D125 CHANNEL
PCB003
Q109, Q110 AMP
IC103 OEC 5002
IC101 LA6358H
R130
Q111 RELAY DRIVE
D129~D132 RECTIFIER
Q106, Q112 CONSTANT VOL
X101
IC102 OEC3005
CH1 CH2 CH3 CH4 X TAL X TAL X IN PO REM
CH3 CH6 CH7 CH8 KO SC1 RES
Q107 RESET
12V
REMOTE CONTROL RECEIVER
BATT
REMOTE CONTROL TRANSMITER
Q108 AMP
PCB005
IC501 L5630 REGULATOR
T101
RY501
D501~D504 RECTIFIER
L502 DEGAUSS COIL
TH501
SW501
L501
T501
AC220V
T4A
Q850, Q851 MUTE
Q602 VIDEO AMP
Q601 VIDEO AMP
BPF601 B.P.F
DL611 DL
L603
L602
VR605
IC601 AN5620
ACC AMP
1H DL DRIVE
MATRIX KILL BNK
DE MOD
OSC
F.F.
TC602
TC601
X601
L610
Q603 VIDEO AMP
VR603 COLOR
VR602 CONTRAST
CLAMP
BLANK
VIDEO AMP
MATRIX
MATRIX
CHROMA AMP
IC602 AN5612
VR601 BRIGHT
PCB002
Q803 RED OUTPUT
VR804 25% RED BIAS
VR801 75% RED DRIVE
Q802 GREEN OUTPUT
Q801 BLUE OUTPUT
VR805 25% BLUE BIAS
VR803 75% BLUE DRIVE
SW601
NOR
SER
VR401 V.HOLD
IC401 LA7820
SYNC SEPA
VERT OSC
VERT DRIVE
AFC
HORI OSC
X-RAY
IC402 UPC1378H
VERTICAL OUTPUT
VR105 H.HOLD
VR403 SUB H.HOLD
D450
D460
D.Y.
C.R.T.
FB401
Q401 HORI DRIVE
T401
Q402 HORI OUTPUT
D407
R433
R438
D408
R440
D409
12V
PCB004
POWER REGULATOR
IC502 STR451
L801
PCB002
PCB001

14 PR
1-2346A

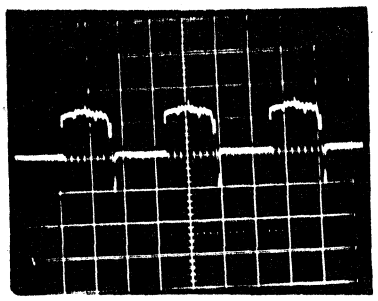


PCB005
TE0105A

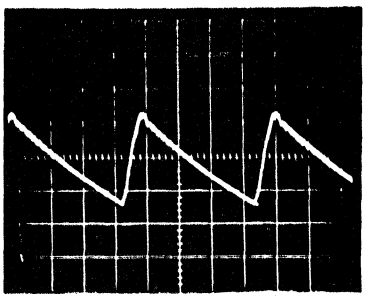


PCB004
TE0100A

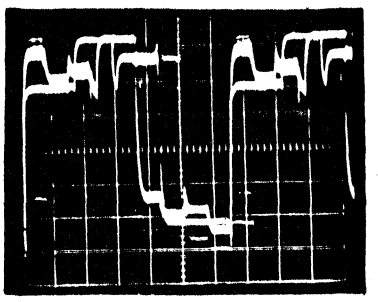
14 PR
4-2098



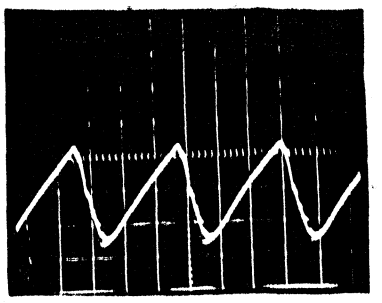
1 0.5V/DIV(H)



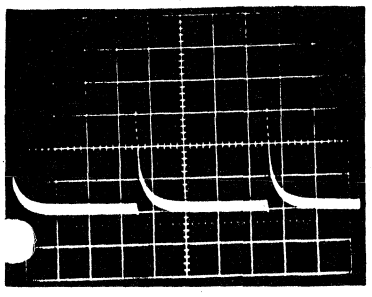
2 500mV/DIV(H)



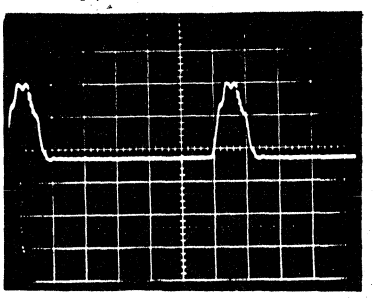
3 20V/DIV (H)



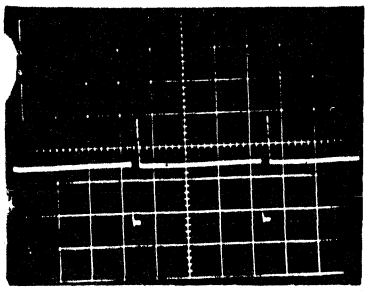
4 5V/DIV(H)



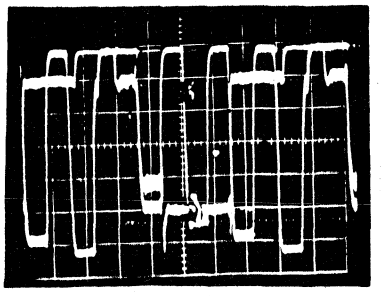
5 0.5V/ DIV(V)



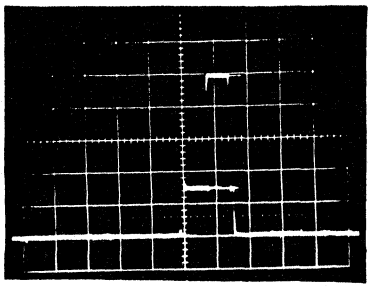
6 10μs/DIV (H)



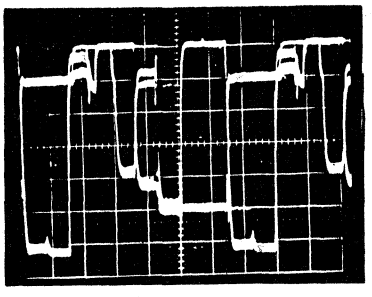
7 0.5V/DIV (V)



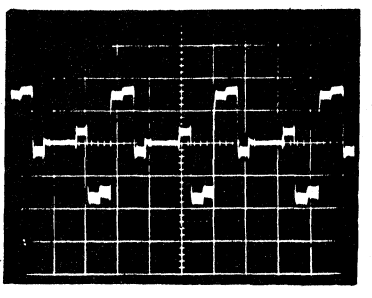
8 20V/DIV(H)



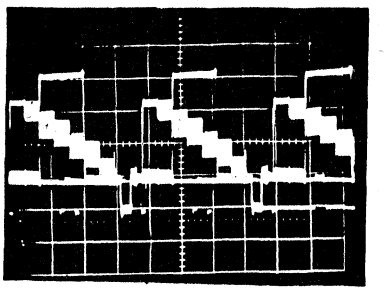
9 2V/ DIV (2H)



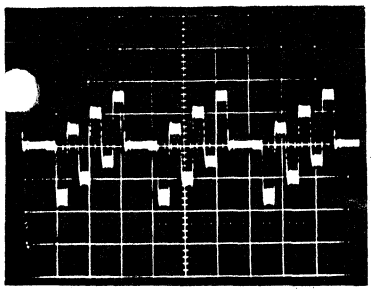
10 20V/DIV (H)



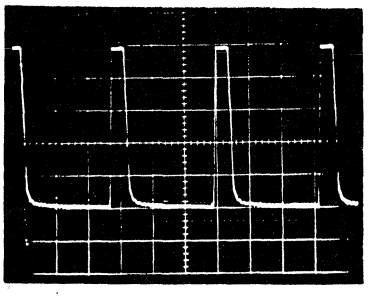
11 0.5V/DIV



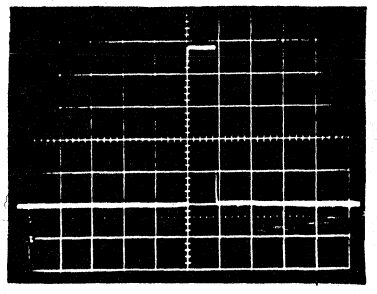
12 500mV/DIV(H)



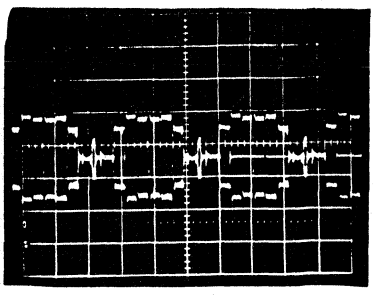
13 0.5V/DIV(H)



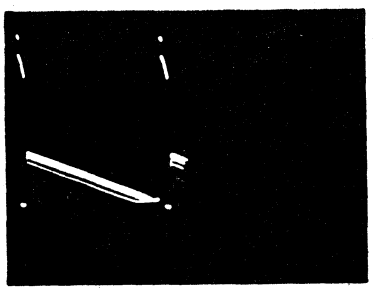
14 2V/DIV (H)



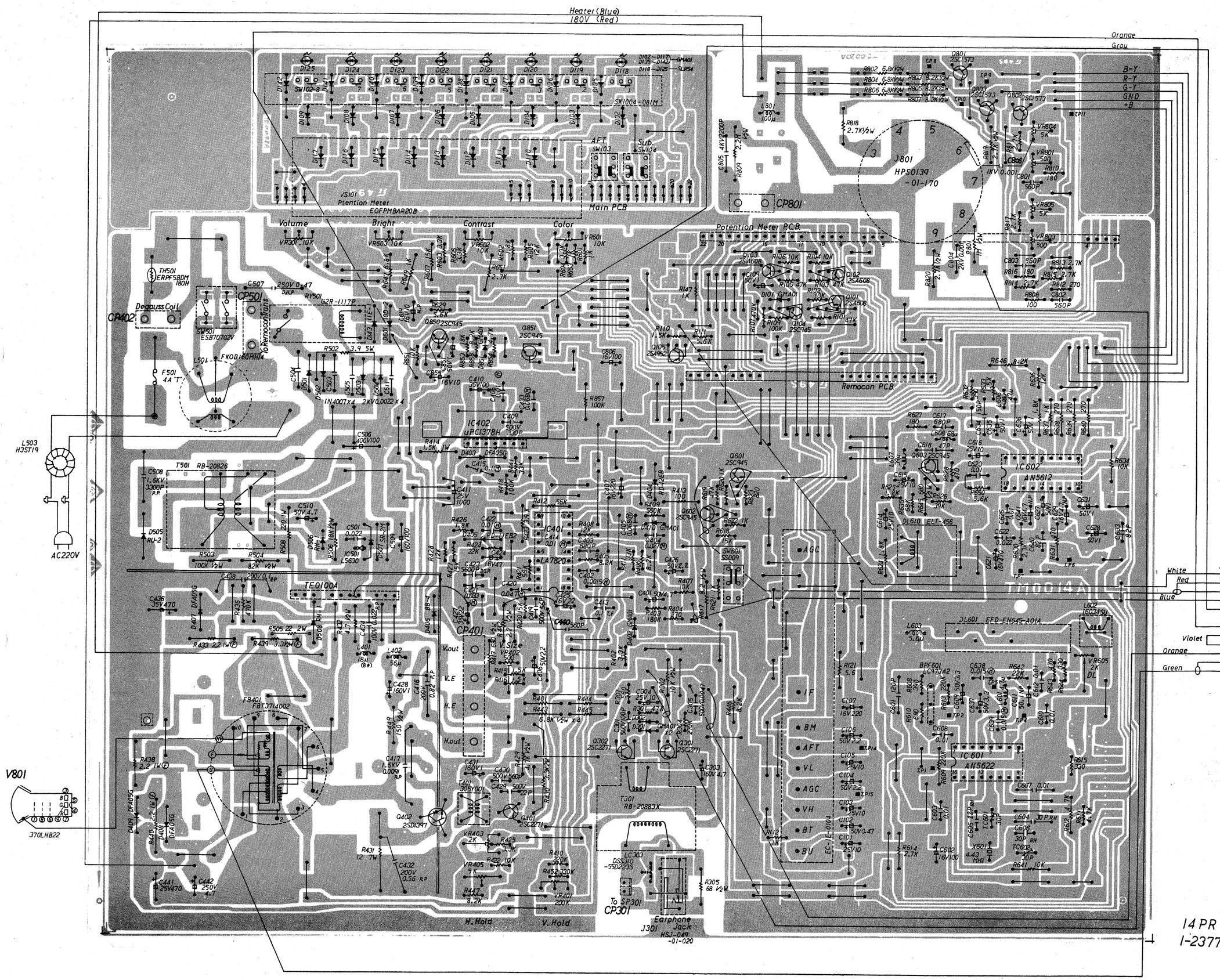
15 2V/DIV (2H)



16 100mV/DIV(H)



17 5V/DIV(V)


Heater (Blue)
180V (Red)
Orange
Gray
B-Y
R-Y
G-Y
GND
+B
Main PCB
Potention Meter P.C.B
Remocon P.C.B
CP801
CP501
CP402
CP401
CP301
J801
HPS0139
-01-170
Volume
Bright
Contrast
Color
Degauss Coil
To Remocon Trans
AC220V
V801
370LHB22
L503
H3ST19
T501 RB-20826
TE01004
IC402
uPC1378H
IC602
AN5612
IC601
AN5622
IC401
LA7820
TM0014A
CD111
AFC
VIDEO
GND
SYNC
DC-VOL
MUTING
AUDIO-NF
GND
AUDIO-OUT
White
Red
Blue
Violet
Orange
Green
AGC
IF
BM
AFT
VL
VH
BT
BU
H.Hold
V.Hold
V.Size
V.out
V.E
H.E
H.out
To SP301
Earphone Jack
J301
HSJ-049
-01-020
14 PR
1-2377

REF. NO.	PARTS NO.	DESCRIPTION		Q'TY
D123	0021720030	LED	SLR-54-UR4F	1
D124	0021720030	LED	SLR-54-UR4F	1
D125	0021720030	LED	SLR-54-UR4F	1
D126	D93004R30Z	DIODE, ZENER	GZA4.3Z	1
D127	D93005R10Y	DIODE, ZENER	GZA5.1Y	1
D129	D25T5566B0	DIODE, RECTIFIER	S5566B	1
D130	D25T5566B0	DIODE, RECTIFIER	S5566B	1
D131	D25T5566B0	DIODE, RECTIFIER	S5566B	1
D132	D25T5566B0	DIODE, RECTIFIER	S5566B	1
D133	D93004R70Y	DIODE, ZENER	GZA4.7Y	1
D134	D93001300Y	DIODE, ZENER	GZA13Y	1
D135	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D136	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D137	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D138	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D139	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D140	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D141	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D142	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D143	D25T5566B0	DIODE, RECTIFIER	S5566B	1
D301	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D302	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D402	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D403	D23FDFA05G	DIODE, RECTIFIER	DFA05G-KB4	1
D404	D9200120B0	DIODE, ZENER	RD-12EB	1
D405	D9200110B2	DIODE, ZENER	RD11EB 2	1
D406	D28F008840	DIODE, RECTIFIER	BB4-F	1
D407	D23FDFA05G	DIODE, RECTIFIER	DFA05G-KB4	1
D408	D23FDFA05G	DIODE, RECTIFIER	DFA05G-KB4	1
D409	D23FDFA05G	DIODE, RECTIFIER	DFA05G-KB4	1
D410	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
D501	D2LTN40070	DIODE, RECTIFIER	1N4007-EHC	1
D502	D2LTN40070	DIODE, RECTIFIER	1N4007-EHC	1
D503	D2LTN40070	DIODE, RECTIFIER	1N4007-EHC	1
D504	D2LTN40070	DIODE, RECTIFIER	1N4007-EHC	1
D505	D2BF00RU20	DIODE, SILICON	RU-2	1
D506	D2BF00RH10	DIODE, RECTIFIER	RH-1	1
D507	D2BF00SR2M	DIODE, AVARANSHU	SR-2M	1
D508	D2BF00RH10	DIODE, RECTIFIER	RH-1	1
D601	D280010D20	DIODE, RECTIFIER	10D-2	1
D851	D13TGMA010	DIODE, SILICON	GMA-01-BT	1
		- COILS & TRANSFORMERS -		
L401	021906180K	COIL FS0810-180K	18 µH	1
L402	021673560K	COIL EL0606RA-560K	56 µH	1
L502	028D140003	COIL, DEGAUSSING	8D140003	1
L601	0216734R7K	COIL EL0606RA-4R7K	4.7 µH	1
L602	03353A0018	COIL, MATCHING	353A001 16034SU	1
L603	0216735R6K	COIL EL0606RA-5R6K	5.6 µH	1
L606	021673470K	COIL EL0606RA-470K	47 µH	1
L607	021673390K	COIL EL0606RA-390K	39 µH	1
L608	021673680K	COIL EL0606RA-680K	68 µH	1
L610	10312R5001	DELAY	ELT-10Z456	1
L801	021673101J	COIL EL0606RA-101J	100 µH	1
L501	029A000002	FILTER, LINE AC	FKOB160MH14	1
T101	0405110014	TRANSFORMER, POWER AC	05110014	1
T301	0451280044	TRANSFORMER, SOUND OUTPUT	RB-20883K	1
T401	03305Y0018	TRANS., HORIZONTAL DRIVE	305Y001	1

ELECTRICAL FOR MODEL COLOR 2001RC

REF. NO.	PARTS NO.	DESCRIPTION		Q'TY
		- JACK & CONNECTORS -		
J301	0602101003	JACK, RCA 35	HSJ0491-01-020	1
J801	0662120001	SOCKET, CATHORD, RAY, TUBE	HPS0139-01-170	1
		- SWITCHES -		
SW102	0501608002	SWITCH, PUSH	SK1004-081M	1
SW103	0501142001	SWITCH, PUSH	ESB-645	1
SW104	0501101005	SWITCH, PUSH	ESB-647	1
SW501	0530102002	SWITCH, PUSH	ESB-70702V	1
SW601	0510422001	SWITCH, SLIDE	SS-009-7H	1
		- SEMI-FIXED RESISTORS -		
VR301	V029400002	VOLUME, ROTALY	K2DAA0M01-10KBX4	1
VR401	V023025B01	VOLUME, ROTALY	K121K0Z21-200KB	1
VR402	V115352B02	VOLUME, SEMI-FIXED	EVN-52JA00B52	1
VR403	V115323B02	VOLUME, SEMI-FIXED	EVN-52JA00B23	1
VR405	V114053B01	VOLUME, SEMI-FIXED	EVL-V0AA00B53	1
VR601	V029400002	VOLUME, ROTALY	K2DAA0M01-10KBX4	1
VR602	V029400002	VOLUME, ROTALY	K2DAA0M01-10KBX4	1
VR603	V029400002	VOLUME, ROTALY	K2DAA0M01-10KBX4	1
VR605	V115323B02	VOLUME, SEMI-FIXED	EVN-52JA00B23	1
VR801	V145052B01	VOLUME, SEMI-FIXED	TM8KH1-1SB500	1
VR803	V145052B01	VOLUME, SEMI-FIXED	TM8KH1-1SB500	1
VR804	V145053B01	VOLUME, SEMI-FIXED	TM8KH1-1SB5K	1
VR805	V145053B01	VOLUME, SEMI-FIXED	TM8KH1-1SB5K	1
		- P.C.BOARDS -		
PCB001	13TM0014A3	PCB	TM0014A	1
PCB002	13TC0020A3	PCB	TC0020A	1
PCB003	13TE0098A3	PCB	TE0098A	1
PCB004	13TE0100A3	PCB	TE0100A	1
PCB005	13TE0105A3	PCB	TE0105A	1
		- MISCELLANEOUS -		
ANT001	1256110003	ANTENNA, ROD	T-5100	1
ANT101	0637300001	ATC UNIT	ATCU-PS-K	1
L503	02A6311981	CORE, TROIDAL	H3ST19	1
CD001	122B054101	CORD, JUMPER	28054101	1
CD301	068312073A	CORD, EIS CONNECTOR	8312073A	1
CD501	120L450001	CORD, AC	E2N 7FEET HANAI	1
CD801	068301003A	CORD, CONNECTOR	8301003A G-244	1
CD802	068301005A	CORD, CONNECTOR	8301005 G-1017	1
CD803	068342003A	CORD, EIS CONNECTOR	8342003A	1
CP801	0694F30010	F-CHIP	163740-1	1
CP102	0694F30010	F-CHIP	163740-1	1
CP103	0694F30010	F-CHIP	163740-1	1
CP104	0694F40010	F-CHIP	163740-2	1
CP105	0694FC0010	F-CHIP	1-163740-1	1
CP106	0694120059	CONNECTOR, PCB SIDE	171826-2	1
CP107	0694130019	CONNECTOR, PCB SIDE	171825-3	1
CP108	0694F30010	F-CHIP	163740-1	1
CP109	0694F40010	F-CHIP	163740-2	1
CP110	0694FB0010	F-CHIP	163740-9	1
CP111	06831C019A	CORD, EIS CONNECTOR	831C019A	1
CP302	0694120019	CONNECTOR, PCB SIDE	171825-2	1
CP101	0694F30010	F-CHIP	163740-1	1

ELECTRICAL FOR MODEL COLOR 2001 RC

REF. NO.	PARTS NO.	DESCRIPTION		Q'TY
CP401	0693340018	CONNECTOR, PCB SIDE	RTB-2.36-4TV	1
CP402	0693010010	CONNECTOR, PIN CENTER	RT-01N-2.3A	1
CP501	0693320018	CONNECTOR, PCB SIDE	RTB-2.36-2TV	1
CP502	0693320029	CONNECTOR, PCB SIDE	TV-50P-02-V1	1
CP503	0694F40010	F-CHIP	163740-2	1
CP504	0694F30010	F-CHIP	163740-1	1
CP801	0694420100	CORD, UX CONNECTOR	2-172629-2	1
DL601	104114R431	DELAY LINE, GLASS	EFD-EN645A01A	1
DY801	0271051403	DY	DY-156	1
FB401	0437140021	TRANSFORMER, FLYBACK	3714002	1
FH501	067H000001	HOLDER, FUSE	7800-6268	1
FH502	067H000001	HOLDER, FUSE	7800-6268	1
F501	0802T04001	FUSE	FST4A (T) 250V	1
JC801	0662120003	SOCKET, COVER, CRT (w/V801)	HPS0110-05-010	1
K001	129T000001	WEDGE	9T000001 58854800	1
K002	129T000001	WEDGE	9T000001 58854800	1
K003	129T000001	WEDGE	9T000001 58854800	1
MG801	0261051301	MAGNET, CONVERGENCE	CM-008K	1
MS001	1282000001	MICA SHEET	S-23	1
NR140	1106410401	R, NETWORK	RM-4-104-J	1
OS101	0771004004	REMOTE RECEIVER	EUR-3619A	1
PF303	11624223S2	FILTER, EMI	DSS310-55D223S	1
BPF601	1144144601	FILTER, BAND PASS	LC-973A2	1
RY501	0560721101	RELAY	G2R-117P-FD-V-US	1
SP301	070G0310002	SPEAKER	EAS-8P75SX-G	1
S001	1286100001	SPACER	SANYO BUSH-K	1
S002	1286100001	SPACER	SANYO BUSH-K	1
TC601	0100514001	C, CERAMIC TRIMMER	TZ03R300E	1
TC602	0100514001	C, CERAMIX TRIMMER	TZ03R300E	1
TH501	D810M180H0	DEGAUSS ELEMENT	ERP-F5B0M180H	1
TM101	076104002	TRANSMITTER	EUR-53111	1
TP001	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP002	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP003	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP004	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP005	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP006	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP007	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP008	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP009	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP0010	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP0011	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP0012	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TP0013	126P000001	TERMINAL, PRESS	2SD	1
TP0014	126V00T001	TERMINAL PIN	TPBS-1.08-T	1
TU101	0114420100	TUNER, UHF VHF	EC-IK-0104	1
VS101	V421124B02	VOLUME, POTENTION	EOFPMBAR-20KB 20K OHM	1
V801	0924130302	TUBE, CATHODE RAY	370LHB22	1
X101	1002R800C	CERAMIC OSCILATOR	CSB800A	1
X601	10064R4301	CRYSTAL	CS-M 4.433619MHz	1